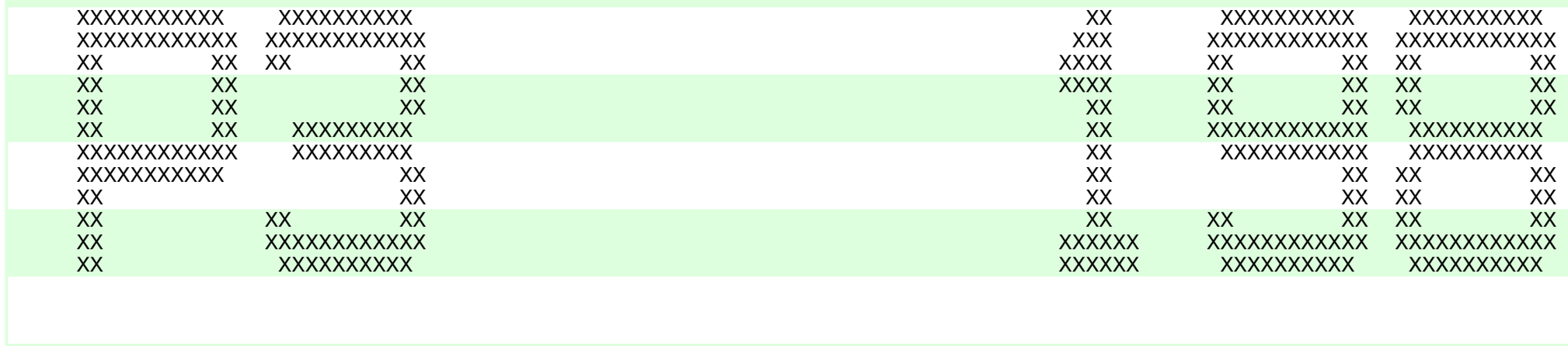
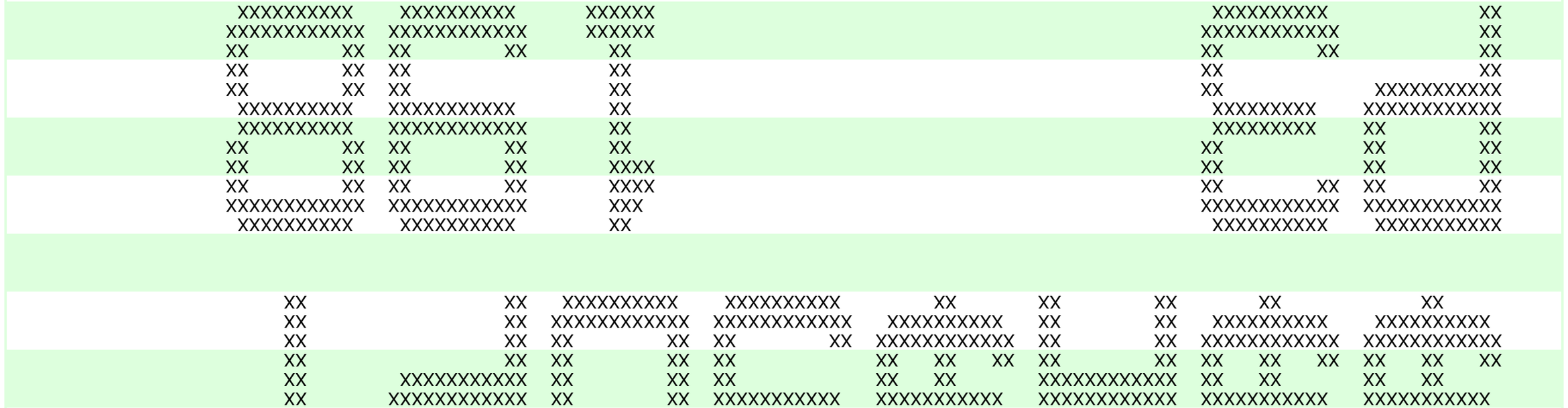



```
********************   START   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.39.55   ********************
********************   START   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.39.55   ********************
********************   START   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.39.55   ********************
********************   START   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.39.55   ********************
********************   START   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.39.55   ********************
********************   START   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.39.55   ********************
```

```
********************   START   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.39.55   ********************
********************   START   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.39.55   ********************
```



```
// JOB $$A$SUPT GEN $$A$SUPT                                    DATE 02/19/10,CLOCK 16/39/39
// OPTION CATAL                                                 00017**5
// EXEC ASSEMBLY,SIZE=192K                                      00018**5
```

SYMBOL	TYPE	ID	ADDR	LENGTH	LD-ID
IJBSUP50	SD (CSECT)	001	000000	021000	
IJBPATCH	LD (ENTRY)		0005E0		001
IJB$$EOS	LD (ENTRY)		021000		001
IJB$$STP	LD (ENTRY)		021000		001

DUMMY SECTION DICTIONARY

SYMBOL	ID	LENGTH
CCBADR	1FF	000048
CCWTCB	1FE	000084
CCWBLOCK	1FD	000048
VCCWADR	1FC	000009
TICCCW	1FB	000008
RCBADR	1FA	000008
PUBADR	1F9	000009
HQADR	1F8	00000C
CHNTBL	1F7	000003
CHQADR	1F6	000008
IRSADR	1F5	000048
DIRECTRY	1F4	000022
ERPIBADR	1F3	000018
CCWADR	1F2	000009
DIB	1F1	000018
ERRQUE	1F0	00002C
SVUARA	1EF	000048
SVEARA	1EE	0000D5
SPIBADR	1ED	000001
PIBADR	1EC	000010
PCBADR	1EB	000008
SYSBLKS	1EA	000008
RURADR	1E9	00000C
USEPARM	1E8	000004
XECBDSEC	1E7	000010
REGADR	1E6	000018
ACCTABLE	1E5	00007E
SCVRTP	1E4	000008
DDTENTRY	1E3	000008
PUB2ADR	1E2	00005C
CBDSECT	1E1	000068
PADS	1E0	0001A8
PDDS	1DF	000060
TLDS	1DE	000010
DPDADR	1DD	000018
BBOXADR	1DC	000010
COMREG	1DB	0000A8
ANCHTAB	1DA	00041E
PGTABADR	1D9	000008
XXSECT	1D8	000050

SYMBOL	ID	LENGTH
FTENTRY	1D7	000014
DSVA	1D6	000018
DIDADW	1D5	000008
REPLICA	1D4	000048
RQTE	1D3	000004

```
 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                    1          PRINT GEN

                                    3          MACRO                                                          00019**5
                                    4          GENSUPVR                                                       00020**5
                                    5          SUPVR AP=YES,                                                 *00021**5
                                                     ASCII=YES,                                              *00022**5
                                                     ERRLOG=YES,                                             *00023**5
                                                     EU=NO,                                                  *00024**5
                                                     ID=T,            SUPERVISOR ID => $$A$SUPT              *00025*16
                                                     MICR=NO,                                                *00026**5
                                                     NPARTS=5,                                               *00027**5
                                                     PAGEIN=5,                                               *00028**5
                                                     PHO=YES,                                                *00029**5
                                                     POWER=YES,                                              *00030**5
                                                     TP=BTAM                                                  00031**5
                                    6          CONFG FP=YES,                                                 *00032**5
                                                     MODEL=158                                                00033**5
                                    7          STDJC CHARSET=60C,                                            *00034**5
                                                     SYM=YES,                                                *00035**5
                                                     DUMP=PART,                                              *00036**5
                                                     SPARM=YES,                                              *00037**5
                                                     DATE=MDY,                                               *00038**5
                                                     DECK=NO,                                                *00039**5
                                                     LISTX=YES,                                              *00040**5
                                                     RLD=YES                                                  00041**5
                                    8          FOPT  AB=YES,                                                 *00042**5
                                                     CBF=8,                                                  *00043**5
                                                     DOC=3277,                                               *00044**5
                                                     ECPREAL=YES,                                            *00045**5
                                                     ERRQ=10,                                                *00046*11
                                                     EVA=(6,6),                                              *00047**5
                                                     FASTTR=YES,                                             *00048**5
                                                     GETVIS=YES,                                             *00049**5
                                                     IDRA=YES,                                               *00050**5
                                                     IT=YES,                                                 *00051**5
                                                     JA=(50,50,50,50,50),                                    *00052**5
                                                     JALIOCS=(250,0),                                        *00053**5
                                                     OC=YES,                                                 *00054**5
                                                     OLTEP=YES,                                              *00055**5
                                                     PC=YES,                                                 *00056**5
                                                     PCIL=YES,                                               *00057**5
                                                     PD=YES,                                                 *00058**5
                                                     PFIX=YES,                                               *00059**5
                                                     PRTY=(BG,F3,F4,F2,F1),                                  *00060*16
                                                     PSLD=5,                                                 *00061**5
                                                     RPS=YES,                                                *00062**5
                                                     SLD=30,                                                 *00063*12
                                                     SYNCH=YES,                                              *00064**5
                                                     SYSFIL=(YES,100,100),                                   *00065**5
                                                     TEBV=CR,                                                *00066**5
                                                     TOD=YES,                                                *00067**5
```

```
LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                                TTIME=F2,                                                  *00068**5
                                                USERID=SUPTR3402/18/10,                                    *00069*17
                                                VSAM=YES,                                                  *00070**5
                                                WAITM=YES,                                                 *00071**5
                                                XECB=YES,                                                  *00072**5
                                                ZONE=(WEST,05,00)                                           00073**5
                                   9          PIOCS BLKMPX=YES,                                                *00074**5
                                                DISK=(2314,3330,3340,3350),                                *00075**5
                                                BMPX=YES,                                                  *00076**5
                                                TAPE=7                                                      00077**5
                                  10          VSTAB RSIZE=4096K,                                               *00078**7
                                                VSIZE=12188K,                                              *00079*17
                                                BUFSIZE=160,                                               *00080**5
                                                SVA=(1024K,128K)                                            00081**5
                                  11          ALLOC F4=1024K,                                                  *00082**5
                                                F3=1024K,                                                  *00083**5
                                                F2=512K,                                                   *00084*17
                                                F1=512K                                                     00085**5
                                  12          ALLOCR BGR=300K,                                                 *00086**5
                                                F4R=300K,                                                  *00087**5
                                                F3R=300K,                                                  *00088**5
                                                F2R=300K,                                                  *00089**5
                                                F1R=64K                                                     00090**5
                                  13          IOTAB BGPGR=40,                                                  *00091**5
                                                F4PGR=50,                                                  *00092**5
                                                F3PGR=35,                                                  *00093*18
                                                F2PGR=59,                                                  *00094*18
                                                F1PGR=17,                                                  *00095**5
                                                CHANQ=200,                                                 *00096*18
                                                D2314=08,                                                  *
                                                D3350=32,                                                  *00098**5
                                                D3420=10,                                                  *00099**5
                                                IODEV=150,                                                 *00100*14
                                                JIB=200,                                                   *00101*15
                                                NRES=100                                                    00102**5
                                  14          DVCGEN CHUN=X'00C',DVCTYP=2540R                                   00103**5
                                  15          DVCGEN CHUN=X'01C',DVCTYP=2540R                                   00104**5
                                  16          DVCGEN CHUN=X'02C',DVCTYP=2540R                                   00105**5
                                  17          DVCGEN CHUN=X'03C',DVCTYP=2540R                                   00106**5
                                  18          DVCGEN CHUN=X'00D',DVCTYP=2540P                                   00107**5
                                  19          DVCGEN CHUN=X'01D',DVCTYP=2540P                                   00108**5
                                  20          DVCGEN CHUN=X'02D',DVCTYP=2540P                                   00109**5
                                  21          DVCGEN CHUN=X'03D',DVCTYP=2540P                                   00110**5
                                  22          DVCGEN CHUN=X'00E',DVCTYP=1403U                                   00111**5
                                  23          DVCGEN CHUN=X'00F',DVCTYP=1403U                                   00112**5
                                  24          DVCGEN CHUN=X'01E',DVCTYP=1403U                                   00113**5
                                  25          DVCGEN CHUN=X'02E',DVCTYP=1403U                                   00114**5
                                  26          DVCGEN CHUN=X'03E',DVCTYP=1403U                                   00115**5
                                  27          DVCGEN CHUN=X'04E',DVCTYP=1403U                                   00116**5
                                  28          DVCGEN CHUN=X'05E',DVCTYP=1403U                                   00117**5
                                  29          DVCGEN CHUN=X'06E',DVCTYP=1403U                                   00118**5
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   30          DVCGEN CHUN=X'07E',DVCTYP=1403U                                  00119**5
                                   31          DVCGEN CHUN=X'01F',DVCTYP=125D                                   00120**5
                                   32          DVCGEN CHUN=X'030',DVCTYP=2701                                   00121**5
                                   33          DVCGEN CHUN=X'031',DVCTYP=2701                                   00122**5
                                   34          DVCGEN CHUN=X'032',DVCTYP=2701                                   00123**5
                                   35          DVCGEN CHUN=X'033',DVCTYP=2701                                   00124**5
                                   36          DVCGEN CHUN=X'070',DVCTYP=2703
                                   37          DVCGEN CHUN=X'071',DVCTYP=2703
                                   38          DVCGEN CHUN=X'072',DVCTYP=2703
                                   39          DVCGEN CHUN=X'073',DVCTYP=2703
                                   40          DVCGEN CHUN=X'080',DVCTYP=3277                                   00125**5
                                   41          DVCGEN CHUN=X'081',DVCTYP=3277                                   00126**5
                                   42          DVCGEN CHUN=X'082',DVCTYP=3277                                   00127**5
                                   43          DVCGEN CHUN=X'083',DVCTYP=3277                                   00128**5
                                   44          DVCGEN CHUN=X'084',DVCTYP=3277                                   00129**5
                                   45          DVCGEN CHUN=X'085',DVCTYP=3277                                   00130**5
                                   46          DVCGEN CHUN=X'086',DVCTYP=3277                                   00131**5
                                   47          DVCGEN CHUN=X'087',DVCTYP=3277                                   00132**5
                                   48          DVCGEN CHUN=X'088',DVCTYP=3277                                   00133**5
                                   49          DVCGEN CHUN=X'089',DVCTYP=3277                                   00134**5
                                   50          DVCGEN CHUN=X'08A',DVCTYP=3277                                   00135**8
                                   51          DVCGEN CHUN=X'08B',DVCTYP=3277                                   00136**8
                                   52          DVCGEN CHUN=X'08C',DVCTYP=3277                                   00137**8
                                   53          DVCGEN CHUN=X'08D',DVCTYP=3277                                   00138**8
                                   54          DVCGEN CHUN=X'08E',DVCTYP=3277,MODE=X'01'   3286 PRINTER         00139**5
                                   55          DVCGEN CHUN=X'08F',DVCTYP=3277                                   00140*18
                                   56          DVCGEN CHUN=X'090',DVCTYP=3277                                   00141*13
                                   57          DVCGEN CHUN=X'091',DVCTYP=3277                                   00142*13
                                   58          DVCGEN CHUN=X'092',DVCTYP=3277                                   00143*13
                                   59          DVCGEN CHUN=X'093',DVCTYP=3277                                   00144*13
                                   60          DVCGEN CHUN=X'094',DVCTYP=3277                                   00145*13
                                   61          DVCGEN CHUN=X'095',DVCTYP=3277                                   00146*13
                                   62          DVCGEN CHUN=X'096',DVCTYP=3277                                   00147*13
                                   63          DVCGEN CHUN=X'097',DVCTYP=3277                                   00148*13
                                   64          DVCGEN CHUN=X'098',DVCTYP=3277                                   00149*13
                                   65          DVCGEN CHUN=X'099',DVCTYP=3277                                   00150*13
                                   66          DVCGEN CHUN=X'09A',DVCTYP=3277                                   00151*13
                                   67          DVCGEN CHUN=X'09B',DVCTYP=3277                                   00152*13
                                   68          DVCGEN CHUN=X'09C',DVCTYP=3277                                   00153*13
                                   69          DVCGEN CHUN=X'09D',DVCTYP=3277                                   00154*13
                                   70          DVCGEN CHUN=X'09E',DVCTYP=3277,MODE=X'01'                        00155*13
                                   71          DVCGEN CHUN=X'09F',DVCTYP=3277,MODE=X'01'                        00156*13
                                   72          DVCGEN CHUN=X'130',DVCTYP=2314
                                   73          DVCGEN CHUN=X'131',DVCTYP=2314
                                   74          DVCGEN CHUN=X'132',DVCTYP=2314
                                   75          DVCGEN CHUN=X'133',DVCTYP=2314
                                   76          DVCGEN CHUN=X'134',DVCTYP=2314
                                   77          DVCGEN CHUN=X'135',DVCTYP=2314
                                   78          DVCGEN CHUN=X'136',DVCTYP=2314
                                   79          DVCGEN CHUN=X'160',DVCTYP=3330                                   00157**5
                                   80          DVCGEN CHUN=X'161',DVCTYP=3330                                   00158**5
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                    81          DVCGEN CHUN=X'162',DVCTYP=3330                                    00159**5
                                    82          DVCGEN CHUN=X'163',DVCTYP=3330                                    00160**5
                                    83          DVCGEN CHUN=X'164',DVCTYP=3330                                    00161**5
                                    84          DVCGEN CHUN=X'165',DVCTYP=3330                                    00162**5
                                    85          DVCGEN CHUN=X'166',DVCTYP=3330                                    00163**5
                                    86          DVCGEN CHUN=X'167',DVCTYP=3330                                    00164**5
                                    87          DVCGEN CHUN=X'280',DVCTYP=3420T9,MODE=X'C0'                       00165**5
                                    88          DVCGEN CHUN=X'281',DVCTYP=3420T9,MODE=X'C0'                       00166**5
                                    89          DVCGEN CHUN=X'282',DVCTYP=3420T9,MODE=X'C0'                       00167**5
                                    90          DVCGEN CHUN=X'283',DVCTYP=3420T9,MODE=X'C0'                       00168**5
                                    91          DVCGEN CHUN=X'284',DVCTYP=3420T9,MODE=X'C0'                       00169**5
                                    92          DVCGEN CHUN=X'285',DVCTYP=3420T9,MODE=X'C0'                       00170**5
                                    93          DVCGEN CHUN=X'286',DVCTYP=3420T9,MODE=X'C0'                       00171**5
                                    94          DVCGEN CHUN=X'287',DVCTYP=3420T9,MODE=X'C0'                       00172**5
                                    95          DVCGEN CHUN=X'350',DVCTYP=3330                                    00173**5
                                    96          DVCGEN CHUN=X'351',DVCTYP=3330                                    00174**5
                                    97          DVCGEN CHUN=X'352',DVCTYP=3330                                    00175**5
                                    98          DVCGEN CHUN=X'353',DVCTYP=3330                                    00176**5
                                    99          DVCGEN CHUN=X'354',DVCTYP=3330                                    00177**5
                                   100          DVCGEN CHUN=X'355',DVCTYP=3330                                    00178**5
                                   101          DVCGEN CHUN=X'356',DVCTYP=3330                                    00179**5
                                   102          DVCGEN CHUN=X'357',DVCTYP=3330                                    00180**5
                                   103          DVCGEN CHUN=X'360',DVCTYP=3350
                                   104          DVCGEN CHUN=X'361',DVCTYP=3350
                                   105          DVCGEN CHUN=X'362',DVCTYP=3350
                                   106          DVCGEN CHUN=X'363',DVCTYP=3350
                                   107          DVCGEN CHUN=X'364',DVCTYP=3350
                                   108          DVCGEN CHUN=X'365',DVCTYP=3350
                                   109          DVCGEN CHUN=X'366',DVCTYP=3350
                                   110          DVCGEN CHUN=X'367',DVCTYP=3350
                                   111          DVCGEN CHUN=X'440',DVCTYP=3350
                                   112          DVCGEN CHUN=X'441',DVCTYP=3350
                                   113          DVCGEN CHUN=X'442',DVCTYP=3350
                                   114          DVCGEN CHUN=X'443',DVCTYP=3350
                                   115          DVCGEN CHUN=X'444',DVCTYP=3350
                                   116          DVCGEN CHUN=X'445',DVCTYP=3350
                                   117          DVCGEN CHUN=X'446',DVCTYP=3350
                                   118          DVCGEN CHUN=X'447',DVCTYP=3350
                                   119          DVCGEN CHUN=X'51F',DVCTYP=3277                                    00197*10
                                   120          ASSGN SYSLOG,X'01F',BG                                            00198**5
                                   121          ASSGN SYSLOG,X'01F',F4                                            00199**5
                                   122          ASSGN SYSLOG,X'01F',F3                                            00200**5
                                   123          ASSGN SYSLOG,X'01F',F2                                            00201**5
                                   124          ASSGN SYSLOG,X'01F',F1                                            00202**5
                                   125          ASSGN SYSREC,X'361',BG                                            00203*12
                                   126          ASSGN SYSREC,X'361',F4                                            00204*12
                                   127          ASSGN SYSREC,X'361',F3                                            00205*12
                                   128          ASSGN SYSREC,X'361',F2                                            00206*12
                                   129          ASSGN SYSREC,X'361',F1                                            00207*12
                                   130          ASSGN SYSRDR,X'00C',BG                                            00208**5
                                   131          ASSGN SYSRDR,X'00C',F4                                            00209**5
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   132          ASSGN SYSRDR,X'00C',F3                                          00210**5
                                   133          ASSGN SYSRDR,X'00C',F2                                          00211**5
                                   134          ASSGN SYSPCH,X'00D',BG                                          00212**5
                                   135          ASSGN SYSPCH,X'00D',F4                                          00213**5
                                   136          ASSGN SYSPCH,X'00D',F3                                          00214**5
                                   137          ASSGN SYSPCH,X'00D',F2                                          00215**5
                                   138          ASSGN SYSLST,X'00E',F4                                          00216**5
                                   139          ASSGN SYSLST,X'00E',F3                                          00217**5
                                   140          ASSGN SYSLST,X'00E',F2                                          00218**5
                                   141          ASSGN SYSIPT,X'00C',BG                                          00219**5
                                   142          ASSGN SYSIPT,X'00C',F4                                          00220**5
                                   143          ASSGN SYSIPT,X'00C',F3                                          00221**5
                                   144          ASSGN SYSIPT,X'00C',F2                                          00222**5
                                   145          ASSGN SYSCAT,X'360',BG                                          00223*11
                                   146          ASSGN SYSCAT,X'360',F4                                          00224*11
                                   147          ASSGN SYSCAT,X'360',F3                                          00225*11
                                   148          ASSGN SYSCAT,X'360',F2                                          00226*11
                                   149          ASSGN SYSCAT,X'360',F1                                          00227*11
                                   150          ASSGN SYS000,X'362',BG                                          00228*12
                                   151          ASSGN SYS000,X'362',F4                                          00229*12
                                   152          ASSGN SYS000,X'362',F3                                          00230*12
                                   153          ASSGN SYS000,X'362',F2                                          00231*12
                                   154          ASSGN SYS000,X'362',F1
                                   155          ASSGN SYS001,X'362',BG                                          00232*12
                                   156          ASSGN SYS001,X'362',F4                                          00233*12
                                   157          ASSGN SYS001,X'362',F3                                          00234*12
                                   158          ASSGN SYS001,X'362',F2                                          00235*12
                                   159          ASSGN SYS001,X'362',F1
                                   160          ASSGN SYS002,X'362',BG                                          00236*12
                                   161          ASSGN SYS002,X'362',F4                                          00237*12
                                   162          ASSGN SYS002,X'362',F3                                          00238*12
                                   163          ASSGN SYS002,X'362',F2                                          00239*12
                                   164          ASSGN SYS002,X'362',F1
                                   165          ASSGN SYS003,X'362',BG                                          00240*12
                                   166          ASSGN SYS003,X'362',F4                                          00241*12
                                   167          ASSGN SYS003,X'362',F3                                          00242*12
                                   168          ASSGN SYS003,X'362',F2                                          00243*12
                                   169          ASSGN SYS003,X'362',F1
                                   170          ASSGN SYSLNK,X'362',BG                                          00244*12
                                   171          ASSGN SYSLNK,X'362',F4                                          00245*12
                                   172          ASSGN SYSLNK,X'362',F3                                          00246*12
                                   173          ASSGN SYSLNK,X'362',F2                                          00247*12
                                   174          ASSGN SYS004,X'00C',BG                                          00248**5
                                   175          ASSGN SYS004,X'00C',F4                                          00249**5
                                   176          ASSGN SYS004,X'00C',F3                                          00250**5
                                   177          ASSGN SYS004,X'00C',F2                                          00251**5
                                   178          ASSGN SYS005,X'00E',BG                                          00252**5
                                   179          ASSGN SYS005,X'00E',F4                                          00253**5
                                   180          ASSGN SYS005,X'00E',F3                                          00254**5
                                   181          ASSGN SYS005,X'00E',F2                                          00255**5
                                   182          ASSGN SYS006,X'00D',BG                                          00256**5
```

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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  183          ASSGN SYS006,X'00D',F4                                          00257**5
                                  184          ASSGN SYS006,X'00D',F3                                          00258**5
                                  185          ASSGN SYS006,X'00D',F2                                          00259**5
                                  186          DPD   UNIT=X'362',CYL=001,VOLID=WORK01                          00260**9
                                  187          SEND                                                            00261**5
                                  188          MEND                                                            00262**5
                                  189          GENSUPVR                                                        00263**5
                                  190+* SUPERVISOR - SUPVR - 5745-SC-SUP - REL. 34.0                 @D348DEM 00900334
                                  191+         PUNCH '         PHASE $$A$SUPT,+0,NOAUTO'      .      @DLSUPID 38350030
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000000                             193+IJBSUP50 CSECT .                  SUPERVISOR BEGIN                          38750028


                                   195+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 38850028
                                   196+*                                                                           * 38900028
                                   197+*        LOW CORE (HARDWARE/SOFTWARE INTERFACE)                             * 38910028
                                   198+*        CONTAINING:   COMMUNICATIONS REGION ADDRESS                        * 38920028
                                   199+*                      PSW'S OLD/NEW                                        * 38930028
                                   200+*                      CSW AND CAW                                          * 38940028
                                   201+*                      SYSTEM TIMERS                                        * 38942028
                                   202+*                      INTERRUPT INFORMATION                                * 38944028
                                   203+*                      LOGOUT AREAS                                         * 38946028
                                   204+*                      BG COMMUNICATIONS REGION                             * 38948028
                                   205+*                      SYSTEM COMMUNICATIONS REGION                         * 38948428
                                   206+*                                                                           * 38950028
                                   207+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 38960028


                          00000    209+SYSS00   EQU   * .              SUPERVISOR ORIGIN                         39000028
                          00000    210+         USING *,R0,RB .         LOW CORE BASE                @D34RDFG    39250034
                          00000    211+         USING CCBADR,R1 .       CCB POINTER                              39500028
                          00000    212+         USING PUBADR,R3 .       PUB POINTER                              39750028
                          00000    213+         USING CHQADR,R4 .       CHANNEL QUEUE POINTER                    40000028
                          00000    214+         USING CCWADR,R7 .       CCW POINTER                              40500028
                          00000    215+         USING SVEARA,R8 .       SAVE AREA POINTER                        40750028
                          02EDA    216+         USING INTRTN,R9 .       BASE POINTER FOR I/O INTERRUPT           41000028
                          00000    217+         USING PIBADR,RA .       PIB POINTER                              41500028
000000 0000000000000000           218+         DC    4F'0' .           RESERVED FOR NON SUPVR USAGE @DM08380    42000030
000010 00000000                   219+         DC    F'0' .            VTAM PNTR TO ATCVT,SET BY    @DM08380    42050030
                                  220+*                                VTAM INITIALIZATION          @DM08380    42100030
000014 00000650                   221+CRADDR   DC    A(BGCOMREG) .     ADDRESS OF COMMUNICATION REGION          42500028
000018 0000000000000000           222+EXOLDP   DC    2F'0' .           EXTERNAL OLD PSW                         42750028
000020 0000000000000000           223+SVOLDP   DC    2F'0' .           SVC OLD PSW                              43000028
                          00024    224+SVOLDADR EQU   SVOLDP+4 .        ADDRESS IN SVC OLD PSW             435   43050028
000028 0000000000000000           225+PCOLDP   DC    2F'0' .           PROGRAM CHECK OLD PSW                    43250028
                          0002C    226+PCKADR   EQU   PCOLDP+4 .        ADDRESS IN PC OLD PSW              435   43500028
000030 0000000000000000           227+MCOLDP   DC    2F'0' .           MACHINE CHECK OLD PSW                    43750028
000038 0000000000000000           228+IOOPSW   DC    2F'0' .           I/O OLD PSW                              44000028
000040 0000000000000000           229+CSW      DC    2F'0' .           CHANNEL STATUS WORD                      44250028
                          00041    230+CCWDRS   EQU   CSW+1 .           CSW CCW ADDRESS                          44500028
                          00044    231+DEVSTA   EQU   CSW+4 .           DEVICE STATUS IN CSW                     44750028
                          00045    232+CHNSTA   EQU   CSW+5 .           CHANNEL STATUS IN CSW                    45000028
                          00046    233+CSWCNT   EQU   CSW+6 .           RESIDUAL COUNT                           45250028
000048 00000000                   234+CAW      DC    F'0' .            CHANNEL ADDRESS WORD                     45500028
00004C 00000000                   235+         DC    F'0' .            JOB DURATION                             45750028
000050 FF000000                   236+SYSTIMER DC    X'FF000000' .     HARDWARE TIMER                           46000028
000054 00FF0000                   237+SYSTOD   DC    X'00FF0000' .     TIME OF DAY                              46250028
000058 040C0000                   238+XTNPSW   DC    X'040C0000' .     EXTERNAL NEW PSW                  EM     46500028
00005C 00000D12                   239+         DC    A(ENTEXT) .       ENTRY ADDRESS                            46750028
000060 000C0000                   240+SCNPSW   DC    X'000C0000' .     SVC NEW PSW                       EM     47000028
000064 00000C5A                   241+SCNADR   DC    A(ENTSVC) .       ENTRY ADDRESS                     D77    47250028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000068 000C0000                    242+PCNPSW   DC    X'000C0000' .      PROGRAM CHECK NEW PSW                  47500028
00006C 000082E0                    243+         DC    A(ENTPCK) .        ENTRY ADDRESS                          47750028
000070 04080000                    244+MCNPSW   DC    X'04080000' .      MACHINE CHECK NEW PSW               JW 48000028
000074 0000C278                    245+         DC    A(MACHEK) .        ENTRY ADDRESS,SHOULD BE ABOVE X'200'  48250028
000078 040C0000                    246+IONPSW   DC    X'040C0000' .      I/O NEW PSW                         EM 48500028
00007C 00000B86                    247+         DC    A(ENTIO) .         ENTRY ADDRESS                          48750028
000080 000006F8                    248+         DC    A(SYSCOM) .        ADDRESS OF SYSCOM                      49000028
000084 0000                        249+EXTINF   DC    H'0' .             FOR SAVING INTERRUPT INFO              49250028
000086 0000                        250+EXTINTC  DC    H'0' .             EXTERNAL INTERRUPT CODE                49500028
                          00087    251+EXTINTRC EQU   EXTINTC+1 .        EXTERNAL INTERRUPT CODE                49750028
000088 0000                        252+SVCINF   DC    H'0' .             FOR SAVING INTERRUPT INFO              50000028
                          00089    253+SVCILC   EQU   SVCINF+1 .         ILC ON SVC IN BITS 5 AND 6             50250028
00008A 0000                        254+SVCINTC  DC    H'0' .             SVC INTERRUPTION CODE                  50500028
                          0008B    255+SVCCODE  EQU   SVCINTC+1 .        FOR SAVING INTERRUPT INFO              50750028
00008C 0000                        256+PGMINF   DC    H'0' .             FOR SAVING INTERRUPT INFO              51000028
                          0008D    257+PGMILC   EQU   PGMINF+1 .         ILC ON PROGRAM CHECK IN BITS 5 AND 6   51250028
00008E 0000                        258+PGMINTC  DC    H'0' .             PROGRAM INTERRUPTION CODE              51500028
000090 00000000                    259+TRADDR   DC    F'0' .             ADDRESS WHICH CAUSED PAGE FAULT     EM 51510028
000094 0000000000000000            260+         DC    2F'0'              RESERVED                         @D349DEM 51750034
00009C 00000000                    261+MONCADR  DC    F'0'               MONITOR CALL ADDR.FLD(MC-CODE@D349DEM 51800034
0000A0 0000000000000000            262+         DC    24X'00'            RESERVED                         @D349DEM 51850034
0000B8 0000                        263+IOINF    DC    H'0' .             FOR SAVING INTERRUPT INFO              52000028
0000BA 0000                        264+CHNADR   DC    H'0' .             I/O ADDRESS                         AC 52050028
0000BC 00000000                    265+         DC    4X'00' .           RESERVED                            US 52100028
0000C0 0000000000000000            266+         DC    40X'00' .          RESERVED                               52500028
0000E8 0000000000000000            267+MCICODE  DC    D'0' .             MACHINE CHECK INT. CODE                52750028
0000F0 0000000000000000            268+         DC    272X'00' .         MODEL INDEPENDENT LOGOUT AREA          53000028
```

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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  270+* SUPERVISOR - CONFG - 5745-SC-SUP - REL. 34.1                @D348DPS 10150034
                                  271+* SUPERVISOR - STDJC - 5745-SC-SUP - REL. 33.0                @D33RDFJ 11100033
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  273+* SUPERVISOR - FOPT - 5745-SC-SUP - REL. 34.1                 @DY15747 00247534



                                  275+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16186028
                                  276+*                                                                               * 16188028
                                  277+*        HARDWARE INFORMATION AREA                                              * 16190028
                                  278+*                                                                               * 16192028
                                  279+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16194028

000200 0000000000000000           281+DLOGOUT  DC    992X'00'               MOD.DEP.LOGOUT AREA    @DA00261 16199630
0005E0 0001DBCE                   282+IJBPATCH DC    A(PATCH)               ADDRESS OF PATCH AREA  @D33RDJB 16210033
                                  283+         ENTRY IJBPATCH                                       @D33RDJB 16213033
0005E4                            284+         DS    CL60                     CE PATCH AREA          @D33RDJB 16220033
                                  285+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16221033
                                  286+*                                                                               * 16222033
                                  287+*        SUPERVISOR LEVEL IDENTIFICATION                                        * 16223033
                                  288+*                                                                               * 16224033
000620 C4D6E261E5E240D9           289+         DC    C'DOS/VS REL 34.0 ECLEVEL=0K      '  SFFSC
000640 E2E4D7E3D9F3F4F0           290+         DC    CL16'SUPTR3402/18/10'                                @D33RDOW 16234033
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  292+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16241028
                                  293+*                                                                           * 16242028
                                  294+*        BACKGROUND COMMUNICATIONS REGION                                   * 16242228
                                  295+*                                                                           * 16243028
                                  296+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16244028

000650                            298+BGCOMREG DS    0D .                COMMUNICATION REGION                     16280028
000650 F0F061F0F061F0F0            299+         DC    C'00/00/00' .   00 JOB DATE                          343 16320028
000658 1000                       300+YPPBEG   DC    AL2(PPBEGIN)    08 SUPERVISOR END                @DM11453 16360031
00065A 1000                       301+         DC    AL2(EOSSPR)     10 END OF STORAGE PROTECTION     @DM11453 16400031
00065C 0000000000000000           302+         DC    11X'00' .       12 USER SCRATCH AREA                      16640028
000667 00                         303+         DC    X'00' .         23 UPSI BYTE                              16720028
000668 D5D640D5C1D4C540           304+         DC    CL8'NO NAME' .  24 JOB NAME                               16760028
000670 00000000                   305+HIGHSTAD DC    A(0) .          32 HIGHEST STORAGE ADDRESS OF PARTITION   16800028
000674 00000000                   306+LATESTAD DC    A(0) .          36 END ADDRESS OF LAST PHASE LOADED       16840028
000678 00000000                   307+         DC    A(0) .          40 END ADDRESS OF LONGEST PHASE LOADED    16880028
00067C 0000                       308+         DC    H'0' .          44 LENGTH OF PP LABEL AREA                16920028
00067E 0010                       309+PIK      DC    X'0010' .       46 PROGRAM INTERRUPT KEY                  16960028
000680 00000000                   310+EOVSADR  DC    A(0) .          48 END OF  VIRTUAL STORAGE ADDRESS    FR  17000028
000684 00                         311+CONFIGR  DC    X'00' .         52 MACHINE CONFIGURATION BYTE    @DM11453 17040031
000685 5E                         312+         DC    B'01011110'                                  .53 CONFG UL 17080028
000686 7C                         313+         DC    B'01111100'                                .   54 STDJC SW 17120028
000687 D3                         314+         DC    B'11010011'                              .   55 STDJC SW   LAV 17160028
000688 00                         315+         DC    B'00000000'     .   56 JCTL SWITCHES             @DM11453 17240031
000689 00                         316+LCBYTE   DC    X'00' .         57 LINKAGE CONTROL BYTE                   17280028
00068A 7C                         317+         DC    B'01111100'                                    58    @DM11453 17320031
00068B 50                         318+         DC    B'01010000'           .   59 STDJC SWITCHES     @DM11453 17360031
00068C 0000                       319+         DC    H'0' .           60 DISK ADDRESS OF LABEL CYLINDER        17400028
00068E 1F65                       320+YFOCL    DC    Y(FOCL) .        62 ADDRESS OF FOCL                   118 17440028
000690 1F6C                       321+YPUBTAB  DC    Y(PUBTAB) .      64 ADDRESS OF PUB TABLE                  17480028
000692 254A                       322+         DC    Y(FAVP) .        66 ADDRESS OF FAVP                       17520028
000694 254B                       323+YJIBTAB  DC    Y(JIBTAB) .      68 ADDRESS OF JIB TABLE                  17560028
000696 0000                       324+         DC    Y(0) .           70 NULL TEB ADDRESS                      17640028
000698 1CCA                       325+         DC    Y(FICL) .        72 ADDRESS OF FICL                       17840028
00069A 1CD0                       326+YNICL    DC    Y(NICL)          74 ADDRESS OF NICL               @D34YDEM 17880034
00069C 1CD6                       327+YLUBTAB  DC    Y(LUBTAB) .      76 ADDRESS OF LUB TABLE               JK 17920028
00069E 38                         328+         DC    AL1(56)    .        78 SYSLST LINE COUNT                     17960028
00069F F0F0F0F0F0F0F0F0           329+         DC    9C'0' .          79 SYSTEM DATE                       385 18000028
0006A8 0000                       330+         DC    H'0' .           88 LIOCS COMMUNICATION BYTES             18040028
0006AA 19B4                       331+YPIBTAB  DC    Y(PIBTAB) .      90 ADDRESS OF PIB TABLE                  18080028
0006AC 0000                       332+         DC    H'0' .           92 LAST CHECKPOINT NUMBER                18120028
0006AE FED4                       333+         DC    AL2(65236) .        JOB ZONE IN MINUTES                IB4.0 18520028
0006B0 2B10                       334+YDSKPOS  DC    Y(DSKPOSBG) .    96 BACKGROUND DIB POINTER                18560028
0006B2 0000                       335+         DC    H'0'                RESERVED                                 18600028
0006B4 1AAC                       336+YPCTAB   DC    Y(PCTAB) .      100 ADDRESS OF PC OPTION TABLE            18680028
0006B6 1B2C                       337+YITTAB   DC    Y(ITTAB) .      102 ADDRESS OF IT OPTION TABLE            18920028
0006B8 1B9C                       338+YOCTAB   DC    Y(OCTAB) .      104 ADDRESS OF OC OPTION TABLE            19160028
0006BA 0010                       339+         DC    X'0010' .    106 KEY OF PROGRAM WITH IT SUPPORT @DM11453 19400031
0006BC 0000                       340+         DC    H'0' .          RESERVED                                 19600028
0006BE 0000                       341+LTKEY    DC    Y(0) .          110 LOGICAL TRANSIENT KEY          @DM11453 19640031
0006C0 00014618                   342+         DC    A(SPARMBG) .    112 POINTER TO SYSPARM FIELD           444 19710028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0006C4 00011768                   343+         DC    A(ACCTBG) .        POINTER TO JA PARTITION TABLE      JB 19840028
0006C8 00001514                   344+         DC    A(GMTDATE) .       ADDR OF TOD COMMUNICATIONS AREA    JB 20040028
0006CC 18B4                       345+YPIB2TAB DC    Y(PIB2TAB) .   124 ADDRESS OF PIB EXTENSION              20120028
0006CE 0000                       346+         DC    Y(0) .         126 NO MICR SUPPORT                        20200028
0006D0 00000000                   347+         DC    F'0' .         128 NO QTAM SUPPORT                        20560028
0006D4 0650                       348+         DC    Y(BGCOMREG) .  132 ADDRESS OF BACKGROUND COMREG           20640028
0006D6 00                         349+OPIND    DC    X'00' .        134 OPTION INDICATOR BYTE                  20680028
0006D7 E1                         350+SCON2    DC    B'11100001'                    135 CONFIG 2  @DL30SSC 20720030
                         006D7    351+RMSROPN  EQU   SCON2 .        135 RMSR OPEN FLAG BYTE          @DM11453 20722031
0006D8 00000740                   352+         DC    A(COMRGEXT) .      ADDRESS OF COMREG EXTENSION           20760028
0006DC 70                         353+         DC    B'01110000'                      .  STD JCS @D33RDFG 20813033
0006DD 70                         354+         DC    B'01110000'                      .  TEM JCS @D33RDFG 20822033
0006DE 00                         355+DSKCONF  DC    X'00'          142 DISK CONF. SET UP BY PIOCS   @DM11453 20840031
0006DF 4040404040404040           356+         DC    CL8' ' .       143     SAVE AREA FOR PROC. NAME @DM11453 20882031
0006E7 00                         357+         DC    X'0' .         151 INTERFACE FLAGS FOR CAT PROC @DM11453 20883031
0006E8 40404040404040             358+         DC    CL7' ' .       152 SAVE AREA FOR STATEMENT NAME @DM11453 20884031
0006EF 00                         359+         DC    X'0' .         159 81 BYTE SYSIN INDICATOR      @DM11453 20934031
0006F0 00000000                   360+         DC    A(0)           160 ADDR PART CONTR BLOCK        @DM11453 20935031
0006F4 00                         361+         DC    X'0'           164 POWER/VS FLAG BYTE 1         @DM11453 20936031
0006F5 00                         362+         DC    X'0'           165 POWER/VS FLAG BYTE 2         @DM11453 20937031
0006F6 0000                       363+         DC    H'0'           166 RESERVED                     @D30EULR 20938030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  365+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 20961028
                                  366+*                                                                           * 20962028
                                  367+*        SYSTEM COMMUNICATIONS REGION                                       * 20963028
                                  368+*                                                                           * 20964028
                                  369+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 20965028

0006F8                            371+SYSCOM   DS    0F .              SYSTEMS COMMUNICATION REGION                21000028
0006F8 00010260                   372+AERBLOC  DC    A(ERBLOC) .       ADDRESS OF ERROR BLOCK                      21040028
0006FC 0000E6D0                   373+         DC    A(AREXIT) .       EXIT ADDRESS FOR ATTENTION              SYS 21120028
000700 0A38                       374+         DC    Y(ERR19) .        CANCEL EXIT FOR ATTENTION                   21160028
000702 09F0                       375+         DC    Y(ERR24) .        CANCEL EXIT FOR ATTENTION                   21200028
000704 00000000                   376+PUBRES   DC    F'0' .            SYSRES PUB ADDRESS STORED BY IPL            21240028
000708 000060E8                   377+AFETCH   DC    A(FETCH) .        ADDRESS OF FETCH ROUTINE                303 21280029
00070C 00002EDA                   378+AINTER   DC    A(INTRTN) .       ADDRESS OF I/O INTERRUPT ROUTINE            21320028
000710 00002D68                   379+AEXTER   DC    A(EXTRTN) .       ADDRESS OF EXTERNAL INTERRUPT ROUTINE       21360028
000714 00005088                   380+ALTA     DC    A(LTA) .          POINTER TO LOGICAL TRANSIENT AREA           21400028
                         00714    381+ACCWNDSP EQU   ALTA              ALSO END OF SUPERVISOR CCW'S @DY15773       21420034
000718 00021000                   382+APPBEG   DC    A(PPBEGIN)        POINTER TO PP AREA           @DM11453       21440031
                         0071C    383+FLPTR    EQU   * .               FREE LIST POINTER                      SYS 21450028
00071C 0000FB18                   384+ACHANQ   DC    A(CHANQ) .        POINTER TO CHANNEL QUEUE                    21480028
000720 0000                       385+LTHIDQ   DC    H'0' .            NUMBER OF CHANNEL QUEUE ENTRIES             21520028
000722 002C                       386+         DC    H'44' .           LENGTH OF ONE ERROR QUEUE ENTRY             21560028
000724 0005                       387+NPART    DC    H'5'      .       NUMBER OF PARTITIONS                     UL 21640028
000726 00                         388+SYSFLAG5 DC    B'00000000'       FLAGS AND SWITCHES           @D34UDEM       21840034
000727 00                         389+SYSFLAG6 DC    AL1(0)            FLAGS FOR IPL                @D34YDEM       21860034
000728 000112CC                   390+AREGSAV  DC    A(REGSAV) .       POINTER TO CHANNEL BUCKETS              303 21920028
00072C 03                         391+IJBCONSP DC    X'03'             INDICATE 3277 SUPPORT        @D34EDGA       22098434
00072D 001898                     392+         DC    AL3(CRTTAB) .     ADDRESS OF CRT TABLE         @D34EDGA       22100034
                         0072C    393+IJBOCFLG EQU   IJBCONSP                                       @D34EDGA       22103034
000730 00000000                   394+         DC    A(0) .            NO SKSEP SUPPORT                        SS 22320028
000734 000101D8                   395+ACHNTAB  DC    A(CHNTAB) .       ADDRESS OF CHANNEL CONTROL TABLE            22400028
000738 60                         396+SYSFLAG1 DC    B'01100000'               FLAGS AND SWITCHES 125 RMS US     22440028
000739 01                         397+SYSFLAG2 DC    X'01' .           SWITCH BYTE (IPL IN PROCESS)    Z0822       22480028
00073A 08                         398+SYSFLAG3 DC    B'00001000'      .FLAGS AND SWITCHES                   UL    22520028
00073B 68                         399+SYSFLAG4 DC    B'01101000'                       FLAGS/SWITCHES@D34RDEM      22560034
00073C 0000                       400+STID     DC    H'0' .            SYSTEM TASK SELECTION CONTR. FIELD FR       22600033
                         0073D    401+SELECT   EQU   *-1 .             SELECT                                SYS   22601028
00073E 0B80                       402+         DC    Y(EXIT)  .        POINTER TO TASK SELECTION    @DM15356       22632033
                         00740    403+COMRGEXT EQU   * .               FORMER COMREG EXTENSION      @DM11453       22634031
000740 00014A60                   404+PDARPTR  DC    A(PDAREA) .       POINTER TO PDAREA                       487 22760028
000744 00000000                   405+         DC    A(0) .            NO TRACK HOLD SUPPORT                       23240028
                         00748    406+IJBTIMER EQU   *                                                        OW 23330028
                         00748    407+YITREQ   EQU   *                                                        OW 23332028
000748 00010188                   408+         DC    A(ITREQ)           ADDR OF TIMER REQUEST TABLE              OW 23340028
00074C 000101E0                   409+ABPTR    DC    A(ABTAB) .        ADDRESS OF AB OPTION TABLE                  23400028
000750 0000                       410+LIK      DC    H'0' .            KEY OF TASK OWNING THE LTA                  23600028
000752 0010                       411+TIK      DC    X'0010' .         TASK INTERRUPT KEY                          23640028
000754 00000000                   412+APOWTB   DC    A(0)              POINTER TO POWER TABLE       @D30EULR       23650030
000758 00000000                   413+         DC    A(0)                    SPACE FOR VTAM ADDRESS @DL28101       23935028
00075C 000137D8                   414+RFTABAD  DC    A(RFTABLE) .      POINTER TO RF TABLE                         24000028
000760 00000000                   415+IJBEUECB DC    A(EUECBTAB) .     PNTR TO ECB ADDR.TABLE(EMULATORS) GRD       24200028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000764 0000150C                   416+IJBOLTEP DC    A(OLTABL) .        ADDRESS OF OLTEP BUCKET          RJI 24280028
                           00764  417+AOLTAB   EQU   IJBOLTEP .         SAME                             RJI 24320028
000768 00000810                   418+RASLINKA DC    A(RASLINK) .       POINTER TO RAS LINKAGE AREA          24560028
00076C 00014621                   419+ASCIITAD DC    A(ASCIITAB) .      ADRESS OF ASCII TABLE                24920028
000770 0000241E                   420+PBOWNPTR DC    A(PUBOWNER) .      ADDRESS OF PUB OWNERSHIP EXTENSION UL 25000028
000774 00000990                   421+AJACOMMN DC    A(ACCTCOMN) .      ADDR OF JOB ACCOUNTING COMM.AREA   JB 25200028
000778 000082E6                   422+APMGR    DC    A(PMGRADR) .       BASE ADDRESS OF PMGR ROUTINES      FR 25280028
00077C 00006B70                   423+ACCWT    DC    A(CCWTADR) .       BASE ADDRESS OF CCW TRANSL.ROUT.   FR 25320028
000780 000008CC                   424+         DC    A(SAVSDAR) .       SDAIDS SUPPORT                    SYS 25360028
000784 00000000                   425+IJBLNSTB DC    A(0)               NO LINE MODE TABLE SUPPORT   @DL28302 25425028
000788 0000B638                   426+AMCOM    DC    A(VSAMCOM) .       ADDR.OF VSAM COM.REG.             SYS 25470028
00078C 00005A18                   427+APTA     DC    A(PTA) .           ADDRESS OF PTA                       25480028
000790 00001710                   428+ASYSBLK0 DC    A(SYSBLK0) .       PTR TO FIRST SYSTEM TASK BLOCK     RH 25483034
000794 00000000                   429+ASYSBLKX DC    F'0' .             PTR TO CURRENT SYSTEM TASK         RH 25486034
000798 00                         430+SYSPTR   DC    X'00' .            FOR ALIGNMENT                      FR 25489034
000799 08                         431+SNSPTR   DC    AL1(SNSBLOCK-SYSBLK0)  PTR TO SNS TASK BLOCK    @D34SDJO 25492034
00079A 10                         432+DSKPTR   DC    AL1(DSKBLOCK-SYSBLK0)  PTR TO DSK TASK BLOCK    @D34SDJO 25495034
00079B 18                         433+RASPTR   DC    AL1(RASBLOCK-SYSBLK0)  PTR TO RAS TASK BLOCK       FR 25501034
00079C 20                         434+PMRPTR   DC    AL1(PMRBLOCK-SYSBLK0) PTR TO PMGR TASK BLOCK       FR 25516034
00079D 00                         435+         DC    X'00'                 RESERVED SLOT             @D34SDJO 25519034
00079E 28                         436+PGNPTR   DC    AL1(PGNBLOCK-SYSBLK0) POINTER TO PAGEIN TASK BL @DL2982F 25525034
00079F 30                         437+SUPPTR   DC    AL1(SUPBLOCK-SYSBLK0) PTR TO SPVR TASK BLOCK       FR 25537034
0007A0 00                         438+         DC    X'00'                 RESERVED SLOT             @D34SDJO 25540034
0007A1 38                         439+CRTPTR   DC    AL1(CRTBLOCK-SYSBLK0) PTR TO  CRT TASK BLOCK       AP 25546034
0007A2 00                         440+         DC    X'00'              ASYNCHR.OC NOT SUPPORTED     @D34ADEM 25573034
0007A3 40                         441+ERPPTR   DC    AL1(ERPBLOCK-SYSBLK0) PTR TO  ERP TASK BLOCK       FR 25646728
0007A4 000000                     442+         DC    3X'00' .           RES. FOR FUTURE SYSTEM TASKS @D34ADEM 25653434
0007A7 48                         443+SVTPTR   DC    AL1(SVTBLOCK-SYSBLK0) PTR TO SVT TASK BLOCK     @D34SDJO 25653734
0007A8 0000F950                   444+ATTTAB   DC    A(TTTAB) .         ADDRESS OF TTIME TABLE        @D33PADO 25655433
0007AC 000015FE                   445+AMVCFLD  DC    A(MVCFLD)          POINTER TO MVCFLD FIELD       @D34UDFG 25660034
0007B0 000008E6                   446+IJBTRTMK DC    A(TRTLTK-129)      POINTER TO TRTMSK FIELD       @D30EULR 25670030
0007B4 0000                       447+TPBAL    DC    H'0' .             TP BALANCING PARAMETER        @D31AUHL 25680031
0007B6 0040                       448+TTOWNR   DC    XL2'0040'      .   TASK TIMER OWNER PIK          @D33PADO 25690033
0007B8                            449+IJBMFCER DS    11X'00' .          REPOSIT. INFO 2560 AND 5425 ERP    AP 25810031
0007C3 0A                         450+         DC    AL1(10)    .       NUMBER OF ERROR QUEUE ENTRIES@DM02322 25812028
0007C4 04B1                       451+         DC    Y(PUBEND-PUBTAB+1) . PUBLENGTH                   @DM01768 25820028
0007C6 0001                       452+APNO     DC    H'1' .             NUMBER OF ACTIVE PARTITIONS        FR 25820828
0007C8 0001D7C0                   453+ASEGT    DC    A(STAB) .          ADDRESS OF SEGMENT TABLE           FR 25822028
0007CC 00014FD8                   454+APFT     DC    A(PFT) .           ADDRESS OF PAGE FRAME TABLE        FR 25824028
0007D0 00019000                   455+APFTX    DC    A(PFTX) .          PTR.TO PAGE FRAME TABLE EXTENSION  FR 25826028
0007D4 00010530                   456+ABBOX    DC    A(BBOX) .          POINTER TO BOUNDARY BOX            FR 25828028
0007D8 00010590                   457+ADPD     DC    A(DPDTAB) .        PTR.TO DPD TABLE                   FR 25830028
0007DC 0000                       458+SYSOCDEV DC    H'0' .             CHAN/UNIT SYS.OPERATOR CONS. @D34SDFR 25832034
0007DE 0000                       459+         DC    H'0' .             RESERVED                      @D34UDFR 25832634
0007E0 0000118C                   460+AVIRT    DC    A(VIRTAD) .        ADDRESS OF VIRTAD ROUTINE          FR 25842028
0007E4 00000000                   461+EOCADDR  DC    F'0' .             END OF REAL STORAGE           @DM11453 25846031
0007E8 00014824                   462+AFTTAB   DC    A(FTTAB)           ADDRESS OF THE FETCH TABLE    @DL29ZCJ 25856129
0007EC 00000000                   463+ASVA     DC    A(0)               ADDRESS OF THE SVA START      @DL29ZCJ 25866029
0007F0 00000000                   464+ASVIS    DC    A(0)               ADDRESS OF SVA GETVIS AREA    @DL29ZCJ 25868029
0007F4 0000A394                   465+ARPSL    DC    A(SCVDEV)          PTR TO RPS LIST -AT IPL TIME  @DL30SSM 25870834
                                  466+*                                 ZEROED OUT, PTR COMES LATER   @DL30SSM 25870934
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                    467+*                                TEMPORARILY USED FOR PG MGR  @DL30SSM 25871034
0007F8 0000D0AC                     468+ARPSR    DC    A(SECTCAL)          RPS SECTOR CALC ROUT.        @DL30SSC 25871234
0007FC 0001DBC0                     469+IJBDLAB  DC    A(SYSCODE)          ADDRESS OF SYSTEM CODE       @D31DCAZ 25871434
000800 00000000                     470+         DC    A(0)                NO ASYN.OP.COM.SUPPORT       @D34ADEM 25871934

000804                              472+AFRSTIRS DC    0A(0)               BOUNDARY / ADCON NAME        @DY15773 25872534
000804 09                           473+IRSFLPTR DC    AL1((IRSABLKS-FRSTIRS)/IRSBLEN) FREE LIST PTR   @DY15773 25872634
000805 011378                       474+         DC    AL3(FRSTIRS)        POINTER TO I/O REQUEST       @DY15773 25872734
                                    475+*                                SPECIFIC INFO BLOCKS         @DY15773 25872834
000808 00011768                     476+AIRSBLND DC    A(IRSBLND)          END OF IRS CCW'S             @DY15773 25872934
00080C 0048                         477+IRSLEN   DC    Y(IRSBLEN)          LENGTH OF IRS BLOCK          @DY15773 25873034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000810                            479+RASLINK  DS    0D .              RAS LINKAGE AREA                          25874428
000810 0000000000000000           480+CPUID    DC    2F'0' .           CPU ID FIELD                              25874628
000818 FF                         481+RASDMC   DC    X'FF' .           DAMAGED CHANNEL BYTE                      25874828
000819 00                         482+RASFLAGS DC    X'00' .           RAS FLAG BYTE                             25875028
00081A 00                         483+MCFLAGS  DC    X'00' .           MACHINE CHECK FLAGS                       25875228
00081B 58                         484+RASMODEL DC    X'58' .           LARGEST CPU MODEL               @DL29VRW  25875934
00081C 0000C8E0                   485+RASTABA  DC    A(RASTAB) .       ADDRESS OF RAS TABLE                      25901828
000820 0000C27A                   486+RASBASE  DC    A(MCSTRT) .       BASE ADDRESS FOR RAS                      25904428
000824 00001EF4                   487+RASHQPTR DC    A(HQPUBTAB) .     POINTER TO HEADQ PUBTAB         @DM01647  25907028
000828 0000D072                   488+RASTATAD DC    A(RASUCSW) .      POINTER TO CCH SAVEAREA         @DL29ZCJ  25909029
                         00828    489+RASTATFL EQU   RASTATAD .        FIRST BYTE FLAGS                @DL29ZCJ  25909429
00082C 00008638                   490+RASPGQU  DC    A(PGQU) .         ADDRESS OF PAGE REQUEST QUEUE       EM  25909628
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   492+*********************************************************************** 25917428
                                   493+*       IN THIS SECTION ONLY THOSE CONSTANTS MAY BE DEFINED THAT ARE * 25920028
                                   494+*       REFERED TO IN ROUTINES WHERE NO BASE REGISTER HAS BEEN SET UP* 25960028
                                   495+*       OR WHICH HAVE NO BASE REGISTER IN COMMON                    * 25961028
                                   496+*********************************************************************** 26000028

000830 00                          498+SUPFLAG  DC    X'00'              MISC.FLAGS                  @D34UDFR 26221234
000831 000000
000834 0000F960                    499+PCBPTR   DC    A(PCBBG)           POINTER TO ACTIVE PCB       @D34UDFR 26222034
000838                             500+         DS    0D .               FORCE DOUBLEWORD ALIGNMENT  @D34UDFR 26222834
000838 7FFFFFFFFFFFFFFF            501+HTIME    DC    X'7FFFFFFFFFFFFFFF' TASK TIMER HIGH VALUE      @D34UDFR 26224034
000840                             502+         DS    0D .               FORCE DOUBLEWORD ALIGNMENT  @D34UDFR 26235034
000840 000A0000                    503+DUMMYPSW DC    X'000A0000' .      HARD WAIT PSW,NOT INTERRUPTABLE        26240028
                         00840     504+ZEROBYTE EQU   DUMMYPSW .         BYTE CONTAINING X'00'                  26241028
000844 00001000                    505+HEX1000  DC    F'4096' .          HEX 1000 FOR BASE                      26280028
000848 00002000                    506+         DC    F'8192' .          HEX 2000 FOR BASE                      26290028
00084C 00000000                    507+SAVERD   DC    F'0'     .         BASE REG.D IS SAVED HERE    @D34RDFG 26300034
000850 0000000000000000            508+ERA      DC    7F'0' .            SAVE AREA FOR R9-RF         @DA01309 26320031
                         00850     509+TEMPFLD  EQU   ERA                TEMPFLD MUST NOT BE USED BY @D34UDFR 26321034
                                   510+*                                INTERRUPTABLE ROUTINES      @D34UDFR 26322034
00086C 00005E18                    511+DISPAD   DC    A(DISP) .          ADDRESS OF DISPATCHER       @DM15356 26325033
                         00870     512+DEVZON   EQU   * .                ZONE OF DEVICE TYPE              D07 26350028
000870 000105A0                    513+LTAREA2  DC    A(LTASAVE) .       ADDRESS OF LTA SAVE AREA               26360028
000874 00000000                    514+ASERTASK DC    A(0)               ADDRESS OF SERVICE TASK     @DY13104 26363034
                                   515+*                                IF EXISTING, OTHERWISE ZERO @DY13104 26366034
000878 00002D68                    516+AEXTRTN  DC    A(EXTRTN) .        ADDRESS OF EXTERNAL INTERRUPT HANDLER 26372531
00087C 0000                        517+SYSSZ    DC    H'0'               SYSTEM TASK SEIZE IDENTIFIER @DY15747 26393034
00087E 0000                        518+RID      DC    H'0' .             ROUTINE IDENTIFIER                EM 26401028
                                   519+*********************************************************************@D34RDFG 26406034
                                   520+*                                                                   @D34RDFG 26411034
                                   521+*   THE FOLLOWING IS A LIST OF BRANCH ADDRESSES FOR THE SVC         @D34RDFG 26416034
                                   522+*   INTERRUPT HANDLER. IT IS ACCESSED BY THE OFFSET CONTAINED       @D34RDFG 26421034
                                   523+*   IN THE FIRST BYTE OF EACH SVCTAB ENTRY.                         @D34RDFG 26426034
                                   524+*                                                                   @D34RDFG 26431034
                                   525+*********************************************************************@D34RDFG 26436034
000880 00000D10                    526+SVCBASE  DC    A(BRDIRECT)        NO BASE TO BE DEFINED       @D34RDFG 26441034
000884 0000D1B4                    527+IOSBASE  DC    A(SGIOS)           BASE OF I/O SVC'S           @D34RDFG 26492134
000888 0000DDCC                    528+IOSBASE2 DC    A(SGIOS2)          BASE OF I/O SVC'S 2ND PART  @DY12235 26492234
00088C 0000E1E4                    529+PGMBASE  DC    A(SGPGM)           BASE OF FETCH SVC'S         @D34RDFG 26492334
000890 0000E494                    530+ERPBASE  DC    A(SGERP)           BASE OF ERP INTERFACE       @D34RDFG 26492434
000894 0000E722                    531+APBASE   DC    A(SGAP)            BASE OF ASYNCH.PROC. SVC'S  @D34RDFG 26492534
000898 0000F0F6                    532+XECBBASE DC    A(SGXECB)          BASE OF CROSS PART.COMM.ROUT.@D34RDFR 26493034
00089C 0000F43A                    533+RMBASE   DC    A(SGRM)            BASE OF RES.CONTROL SVC'S   @D34RDFG 26493234
0008A0 000087EC                    534+PMGRENT  DC    A(PMGRSVC)         ENTRY OF PAGE MANAGER SVC'S @D34RDFG 26493334
0008A4 0000B630                    535+AMENTRY  DC    A(SGAM)            ENTRY FOR SVC 61,62,65      @D34RDFG 26493634
0008A8 0000D0AC                    536+CVRTBASE DC    A(SECTCAL)         BASE OF RPS SECT.CALC.ROUTINE@D34RDFG 26496234
0008AC 0000BD16                    537+APAGEOPT DC    A(PAGEOPT)         BASE OF PAGING OPTIM.       @D34RDFG 26497034
0008B0 0000B0F8                    538+ASVCX    DC    A(SGSVCX)          BASE OF SOME SVC'S IN SGSVCX @D34RDFG 26497234
0008B4 0000B226                    539+ASVCX2   DC    A(SGSVCX2)         BASE OF OTHER SVC'S IN SGSVCX@D34RDFG 26497434
0008B8 0000B5DE                    540+ASVC95X  DC    A(SVC95)           BASE AND ENTRY OF SVC 95    @D34RDFG 26498434
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0008BC 0000F988                    542+ASVCTAB  DC    A(SVCTAB)      SVC BRANCH TABLE ADDRESS          @D34SDJO 26499034
0008C0 00001060                    543+ASVC33   DC    A(SVC33)       SVC 33 ENTRY ADDRESS              @D34SDJO 26499234
0008C4 00                          544+DEFIXSW  DC    X'00'              DEFIX SWITCH FOR FAST TRANSL  @D32XDRP 26514232
0008C5 00
0008C6 0000                        545+LOWFXPTR DC    H'0'                                             @D32XDRP 26514632
0008C8 00007B70                    546+ACCWT2   DC    A(CCWTADR+X'1000') SECOND BASE ADDR OF CCW-XLAT  @D32XDRP 26515632
0008CC                             547+         CNOP  0,4 .              SDAID SAVEAREA HAS TO START   @D32XDRP 26516232
                                   548+*                                 AT FULLWORD BOUNDARY                EM 26517228
                                   549+*                                 SDAID ACCESSES THIS AREA      @DM01785 26517428
                                   550+*                                 USING A DSECT                 @DM01785 26517528
0008CC 0000000000000000            551+SAVSDAR  DC    3F'0' .            SDAID/370 SAVEAREA                FR 26517628
0008D8 07A6                        552+ADRTFIX  DC    AL2(TFIX-PMGRADR)  FOR SD-AID                       EM 26518028
0008DA 0824                        553+ADRTFREE DC    AL2(TFREE-PMGRADR) FOR SD-AID                       EM 26518528
0008DC 0000000000000000            554+DOSPGMN  DC    2F'0' .            SDAID DOS PSW                     FR 26519528
0008E4 00                          555+TFIXIDEN DC    X'00' .            TFIX REQ. IDENT.              @DM01785 26520028
                                   556+*                                 END OF SDAID COM.AREA         @DM01785 26520528
                                   557+*                                                               @DM01785 26520628
0008E5 000000
0008E8 000015CE                    558+ASYSPIBS DC    A(SPIBAR) .        PTR TO SYST.TASK PIB FLAGS       SYS 26550028
0008EC 0001DD18                    559+AFCB     DC    A(FCBQ)                                             SYS 26552028
0008F0 0000                        560+CNTCOM   DC    H'0'                                                FR 26554028
0008F2 0008                        561+H8       DC    H'8' .             USED FOR VARIOUS CALCULATIONS       26556028
0008F4 0000                        562+TPPIK    DC    H'0'                                             @DY20238 26558034

                                   564+*        THE NEXT FIELDS HAVE BEEN INSERTED IN ORDER TO ALLOW USAGE OF  26600028
                                   565+*        IC INSTRUCTIONS INSTEAD OF SLL/MH INSTRUCTIONS-PERFORMANCE  UR 26640028

0008F6 00020406080A0C0E            567+CHNDIS   DC    X'00020406080A0C0E' CHANNEL TABLE DISPLACEMENTS      UR 26720028
0008FE 00183048607890A8            568+BUCKDIS  DC    X'00183048607890A8' CHANNEL BUCKET DISPLACEMENTS    191 26800028
000906 0000000000000000            569+         DC    4H'0' .            RESERVED                         473 27280028

                         0090E     571+TRTMASK  EQU   *                  DEFINITION OF RESOURCE TABLE      FR 28842028
                         0090F     572+TRTAMBG     EQU   *+1      .      USED TO SET PARTITION VSAM-BOUND  UL 28843534
                         00911     573+TRTAMF4     EQU   *+3      .      USED TO SET PARTITION VSAM-BOUND  UL 28843534
                         00913     574+TRTAMF3     EQU   *+5      .      USED TO SET PARTITION VSAM-BOUND  UL 28843534
                         00915     575+TRTAMF2     EQU   *+7      .      USED TO SET PARTITION VSAM-BOUND  UL 28843534
                         00917     576+TRTAMF1     EQU   *+9      .      USED TO SET PARTITION VSAM-BOUND  UL 28843534
00090E 0083008300830083            577+TRTAM    DC    X'008300830083008300830083008300830083' USED BY VSAM   @D34RDFG 28844734
00091C 008300830083                578+         DC    X'008300830083'    FOR CONSTANT OFFSETS          @D34RDFG 28850234
                         00923     579+TRTGVBG     EQU *+1      .       SET PARTITION GETVIS BOUND    @D33GDGU 28861834
                         00925     580+TRTGVF4     EQU *+3      .       SET PARTITION GETVIS BOUND    @D33GDGU 28861834
                         00927     581+TRTGVF3     EQU *+5      .       SET PARTITION GETVIS BOUND    @D33GDGU 28861834
                         00929     582+TRTGVF2     EQU *+7      .       SET PARTITION GETVIS BOUND    @D33GDGU 28861834
                         0092B     583+TRTGVF1     EQU *+9      .       SET PARTITION GETVIS BOUND    @D33GDGU 28861834
000922 0083008300830083            584+TRTGTVS  DC    X'008300830083008300830083008300830083' GETVIS GATES   @D34RDFG 28864234
                         00931     585+TRTBG     EQU   *+1      .       USED TO SET PARTITION PFIX-BOUND  UL 28871029
                         00933     586+TRTF4     EQU   *+3      .       USED TO SET PARTITION PFIX-BOUND  UL 28871029
                         00935     587+TRTF3     EQU   *+5      .       USED TO SET PARTITION PFIX-BOUND  UL 28871029
                         00937     588+TRTF2     EQU   *+7      .       USED TO SET PARTITION PFIX-BOUND  UL 28871029
                         00939     589+TRTF1     EQU   *+9      .       USED TO SET PARTITION PFIX-BOUND  UL 28871029
000930 0083008300830083            590+TRTFX    DC    X'008300830083008300830083008300830083' PFIX GATES     @D34RDFG 28876634
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            0093F   591+TRTLLBG     EQU   *+1      .      USED TO SET PARTITION LLEV-BOUND   UL 28878934
                            00941   592+TRTLLF4     EQU   *+3      .      USED TO SET PARTITION LLEV-BOUND   UL 28878934
                            00943   593+TRTLLF3     EQU   *+5      .      USED TO SET PARTITION LLEV-BOUND   UL 28878934
                            00945   594+TRTLLF2     EQU   *+7      .      USED TO SET PARTITION LLEV-BOUND   UL 28878934
                            00947   595+TRTLLF1     EQU   *+9      .      USED TO SET PARTITION LLEV-BOUND   UL 28878934
00093E 0083008300830083             596+TRTLL       DC    X'008300830083008300830083008300830083'          @D34RDFG 28879334
                            0094D   597+TRTG38      EQU   *+1      .      USED TO GATE SVC38                     FR 28880829
                            0094F   598+TRTG41      EQU   *+3      .      USED TO GATE SVC41/42                  FR 28882229
                            00953   599+TRTPFG      EQU   *+7  .          USED WHEN RESETTING TFIX       @D34RDFG 28900434
                            00955   600+TRTIDRA     EQU   *+9  .          USED WITH IDRA OR CRT          @D34RDFG 28903234
00094C 0083008300830083             601+TRTEXT      DC    X'00830083008300830083'                          @D34RDFG 28905334
                            00957   602+TRTG58      EQU   *+1  .          USED TO GATE SVC58                     FR 28907429
                            00959   603+TRTSEIZE    EQU   *+3  .          SET TO X'00' TO SEIZE SYSTEM           FR 28908829
                            0095B   604+TRTBUF      EQU   *+5 .           SET TO X'00' WHEN NO BUFFER AVAIL.     FR 28910229
                            0095D   605+TRTFIX      EQU   *+7 .           SET TO X'00' WHEN ALL PAGES FIXED      FR 28911629
                            0095F   606+TRTCHQ      EQU   *+9  .          SET TO X'00' WHEN CHAN.QUEUE FULL      FR 28913029
                            00961   607+TRTCCW      EQU   *+11 .          USED BY CCW-TRANSLATOR                 FR 28914429
                            00963   608+TRTCBF      EQU   *+13 .          USED BY CBF ROUTINE            @DM02266 28915829
                            00965   609+TRTG92      EQU   *+15            WAIT IF XECB TABLE IN USE      @D34XDJO 28916534
000956 0083008300830083             610+TRTSYS      DC    X'008300830083008300830083008300830083'          FR 28917229

                            00967   612+TRTLTK      EQU   *+1 .           SET TO 0 WHEN LTA ACTIVE               RH 28920028
                            00969   613+TRTRUN      EQU   *+3 .           NEVER CHANGED                          FR 28960028
                            0096B   614+TRTPTA      EQU   *+5 .           SET TO 0 WHEN PTA IN USE               59 29000028
                            0096D   615+TRTBND      EQU   *+7 .           COMMON WAIT COND.,ALWAYS=X'00'         FR 29001028
000966 0083008383838300             616+TRTMSK      DC    X'0083008383838300' .  MASK FOR TASK SELECTION           EM 29040028

00096E 0000000000000000             618+            DC    8X'00'          QTAM EXTENSION                 @DZ20015 29060034
                            0097D   619+TRTPWSRV    EQU   *+7             GATE FOR POWER SERVICE         @DY15975 29072434
000976 0083008300830083             620+            DC    X'0083008300830083'                            @DY15975 29072634

                            0097C   622+SPVECB      EQU   *-2 .           USED TO ADDRESS NEXT BYTE      @DM03432 29078128
00097E 80                           623+            DC    X'80' .         THIRD BYTE OF SPVECB           @DM03432 29078228
00097F 00                           624+FCHSW       DC    X'00' .         INDICATOR FOR REQUESTOR                KR 29078428
000980 00005600                     625+ASTRING     DC    A(STRING) .     ADDRESS OF CCW STRING (FECHT)          KR 29078828
000984 00                           626+NDEACTP     DC    X'00' .         NO.OF DEACTIVATED PARTITIONS           KR 29079534
000985 000000
000988 0000AC1B                     627+ATRTDV      DC    A(TRTDV) .      TABLE INDICATING TP- AND       @DF02327 29079628
                                    628+*                                   CRT-DEVICES                    @DF02327 29079728


                                    630+* COMMUNICATIONS AREA FOR JOB ACCOUNTING *                             JB 29200028
                                    631+*                                                                        29240028
000990                              632+ACCTCOMN    DS    0D .                                                 JB 29280028
000990                              633+ACCTSVRG    DS    4F .            RESERVED                             JB 29320028
0009A0 0000                         634+ACCTSVRX    DC    H'0' .          SAVE AREA FOR EXIT REMAINDER         JB 29360028
0009A2 0000                         635+ACCTSVRE    DC    H'0' .          SAVE AREA FOR ENTRY REMAINDER        JB 29400028
0009A4 00000001                     636+ACCTPCNT    DC    F'1' .          COUNT OF ACTIVE BATCH PARTITIONS     JB 29440028
0009A8 00                           637+ACCTSAID    DC    X'0' .          ACCOUNTING ID OWNING SUPERVISOR      JB 29480028
0009A9 00                           638+ACCTFAID    DC    X'0' .          NEXT ACCOUNTING ID                   JB 29520028
0009AA 00                           639+ACCTRAID    DC    X'0' .          RUNNING ACCOUNTING ID                JB 29560028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0009AB 08                          640+ACCTSWCH DC    B'00001000'      .     ACCOUNTING SWITCHES            JB 29600028
0009AC 00000000                    641+ACCTIME  DC    F'0' .                 TASK SELECTION TIME            JB 29640028
0009B0 0000                        642+ACCTRESC DC    H'0' .                 RESERVED                       JB 29680028
0009B2 1BD0                        643+ACCTUSEP DC    Y(ACCTUSER) .          ADDRESS OF USER SAVE AREA      JB 29720028
0009B4 00FA                        644+ACCTUSEL DC    H'250'       .         LENGTH USER SAVE AREA          UL 29730028
0009B6 0000                        645+ACCT$JOB DC    H'0' .                 JA PARTITION INDICATION        UL 29740028
                             009B8 646+ACCTBLES EQU   * .                                                  UL 29780028
0009B8 00011768                    647+         DC    A(ACCTBG)     .        POINTER TO PARTITION TABLE     UL 29960028
0009BC 00011910                    648+         DC    A(ACCTF4)     .        POINTER TO PARTITION TABLE     UL 29960028
0009C0 00011AB8                    649+         DC    A(ACCTF3)     .        POINTER TO PARTITION TABLE     UL 29960028
0009C4 00011C60                    650+         DC    A(ACCTF2)     .        POINTER TO PARTITION TABLE     UL 29960028
0009C8 00011E08                    651+         DC    A(ACCTF1)     .        POINTER TO PARTITION TABLE     UL 29960028
0009CC 0000000000000000            652+ACCTSEAS DC    5H'0'        .         SEIZE BLOCKS                   UL 30080028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


0009D6 06B0                      655+ERR11    BCTR  RB,R0 .          NO CCW TRANSL. FOR UNSUPPORTED DEV UL 34300028
0009D8 06B0                      656+ERR12    BCTR  RB,R0 .          INSUFF.BUFFER SPACE FOR CCW TRANSL UL 34304028
0009DA 06B0                      657+ERR13    BCTR  RB,R0 .          CCW COUNT GREATER THAN 32K         UL 34308028
0009DC 06B0                      658+ERR14    BCTR  RB,R0 .          PAGE POOL TOO SMALL                UL 34312028
0009DE 06B0                      659+ERR15    BCTR  RB,R0 .          PAGE FAULT IN DISABLD PGM (NOT SV) UL 34316028
0009E0 06B0                      660+ERR16    BCTR  RB,R0 .          PAGE FAULT IN MICR STACKER SELECT OR *34316828
                                                                     IN PAGE FAULT APPENDAGE ROUTINE    UL 34317228
                          009E2  661+ERR17    EQU   * .              NOT USED                          HKU 34317628
0009E2 4BB0 08F2          008F2  662+         SH    RB,H8 .          SKIP 8 ENTRIES                    HKU 34318428
0009E6 06B0                      663+ERR1F    BCTR  RB,R0 .          CPU FAILURE                        34319228
0009E8 06B0                      664+ERR20    BCTR  RB,R0 .          PROGRAM CHECK                       AC 34320028
0009EA 06B0                      665+ERR21    BCTR  RB,R0 .          ILLEGAL SVC                         AC 34360028
0009EC 06B0                      666+ERR22    BCTR  RB,R0 .          PHASE NOT FOUND                     AC 34400028
0009EE 06B0                      667+ERR23    BCTR  RB,R0 .          PROGRAM REQUEST                     AC 34440028
0009F0 06B0                      668+ERR24    BCTR  RB,R0 .          OPERATOR REQUEST                    AC 34480028
0009F2 06B0                      669+ERR25    BCTR  RB,R0 .          INVALID ADDRESS                     AC 34520028
0009F4 06B0                      670+ERR26    BCTR  RB,R0 .          UNASSIGNED LUB CODE                 AC 34560028
0009F6 06B0                      671+ERR27    BCTR  RB,R0 .          INVALID LUB CODE IN CCB                34640028
0009F8 06B0                      672+ERR28    BCTR  RB,R0 .          NOT USED                               34680028
0009FA 06B0                      673+ERR29    BCTR  RB,R0 .          NO RELOCATING LOAD SUPPORT             34720028
0009FC 06B0                      674+ERR2A    BCTR  RB,R0 .          NOT USED                    @DM04833 34770028
0009FE 06B0                      675+ERR2B    BCTR  RB,R0 .          I/O ERROR ON PCIL           @DM03673 34820028
000A00 06B0                      676+ERR2C    BCTR  RB,R0 .          INVALID PARAMETER PASSED TO SUPERVISOR34830028
                                                                     BY PAGE AULT APPENDAGE ROUTINE     UL 34840028
000A02 06B0                      677+ERR2D    BCTR  RB,R0 .          PGM CANNOT BE EXECUTED - RESTART DUE *34850028
                                                                     TO FAILING STORAGE BLOCK           UL 34860028
000A04 06B0                      678+ERR2E    BCTR  RB,R0 .          INVALID RESOURCE REQUEST             *34910028
                                                                        (POSSIBLE DEADLOCK)          Z0795 34910428
000A06 41BB 001F          0001F  679+ERR2F    LA    RB,X'1F'(RB) .   MORE THAN 255 PFIX REQUESTS FOR 1 PG  34912028

000A0A 41BB 0010          00010  681+ERR10    LA    RB,NORMEOJ(RB) . NORMAL EOJ                            34920028
000A0E 18F6                      682+         LR    RF,R6 .          SET UP EXIT ADDRESS                   34960028
000A10 9507 073D    0073D        683+         CLI   SELECT,SUPVR .   INVALID ADDRESS DURING FETCH       FR 35000028
000A14 4770 0A5E    00A5E        684+         BNE   ERRGO .          NO,CONTINUE                         FR 35040028
000A18 4590 0B4C          00B4C  685+         BAL   R9,FCHEXIT .     DEACTIVATE FETCH                   303 35080028
000A1C 18F6                      686+         LR    RF,R6 .          SET UP EXIT ADDRESS         @DM05239 35130029
000A1E 47F0 0A5E    00A5E        687+         B     ERRGO .          SET UP FOR CANCEL                     35160028


000A22 06B0                      689+ERR30    BCTR  RB,R0 .          READING PAST /&                     AC 35240028
000A24 06B0                      690+ERR31    BCTR  RB,R0 .          ERROR QUEU OVERFLOW                    35320028
000A26 06B0                      691+ERR32    BCTR  RB,R0 .          INVALID DASD ADDRESS                   35360028
000A28 06B0                      692+ERR33    BCTR  RB,R0 .          NO LONG SEEK                        FR 35400028
000A2A 06B0                      693+ERR34    BCTR  RB,R0 .          NOT USED                               35420028
000A2C 06B0                      694+ERR35    BCTR  RB,R0 .          NOT USED                               35424028
000A2E 06B0                      695+ERR36    BCTR  RB,R0 .          PAGE FAULT IN I/O APPENDAGE RTN    UL 35424828
000A30 06B0                      696+ERR37    BCTR  RB,R0 .          NOT USED                    @DM03739 35428028
000A32 06B0                      697+ERR38    BCTR  RB,R0            INV ADDR OF SK/SRCH/CNTFLD  @DZ14571 35429034
000A34 41BB 0020          00020  698+ERR39    LA    RB,X'20'(RB)     ERROR IN SYSLOG CHNL PROGRAM @DZ14571 35479034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000A38 06B0                      699+ERR19    BCTR  RB,R0 .            OPERATOR OPTION                    AC 35600028
000A3A 06B0                      700+ERR1A    BCTR  RB,R0 .            I/O ERROR                             35610028
000A3C 41BB 001B          0001B  701+ERR1B    LA    RB,FCHAN(RB) .      CHANNEL FAILURE                       35640028
000A40 4570 0B20          00B20  702+         BAL   R7,CQDSP .          RESTORE REGISTERS                     35680028
000A44 5890 070C          0070C  703+         L     R9,AINTER .         SET BASE FOR I/O INTERRUPT         300 35720028
000A48 9620 1002    00002        704+         OI    CCBCOM1,DISERR      SET DISASTER ERROR IN CCB      @D31DCFS 35720231
000A4C 41F0 9352          0322C  705+         LA    RF,TRNOFF .         DEQUEUE BEFORE CANCEL                 35760028
000A50 1211                      706+         LTR   R1,R1               CCB AVAILABLE                 @DM03673 35761028
000A52 4770 0A5E    00A5E        707+         BNZ   ERRGO               YES                           @DM03673 35762028
000A56 41F0 956E          03448  708+         LA    RF,INITHQ           NO,RESTART CHANNEL            @DM03673 35763028
000A5A 9463 3006    00006        709+         NI    PUBCSFLG,XFF-DEVBSY-POSTDE-OPINTV-QEDERR          @DM03673 35764028
                          00A5E  710+ERRGO    EQU   *                                                 @D31AUHL 35766031
000A5E 94FD 0739    00739        711+         NI    SYSFLAG2,XFF-TPBIT  OPEN REACTIVATION             @D31AUHL 35770031
000A62 9604 073B    0073B        712+         OI    SYSFLAG4,KLLRSTBT   REQUEST KILL RESET              @D31AUHL 35772031
000A66 4BA0 0BDE          00BDE  713+         SH    RA,PIBDIFF          USE SECOND PIB                @D31DCWK 35780631
000A6A 9110 A00F    0000F        714+         TM    PIBFLG3,ACLOSE      AUTOMATIC CLOSE IN PROCESS    @D31DCSF 35780831
000A6E 4710 0A7E    00A7E        715+         BO    ERRGO1              YES, SKIP CANCELCODE SET      @D31DCFS 35781231
000A72 4AA0 0BDE          00BDE  716+         AH    RA,PIBDIFF          USE FIRST PIB AGAIN           @D31DCWK 35791231
000A76 42B0 A001          00001  717+         STC   RB,PIBCNCL .        POST CANCELCODE IN PIB              HL 35800028
000A7A 47F0 0A82    00A82        718+         B     ERRGO2                                            @D31DCWK 35803331
                          00A7E  719+ERRGO1   EQU   *                                                 @D31DCFS 35813431
000A7E 4AA0 0BDE          00BDE  720+         AH    RA,PIBDIFF          USE FIRST PIB AGAIN           @D31DCWK 35815431
000A82 58B0 0844          00844  721+ERRGO2   L     RB,HEX1000 .        RESTORE BASE REGISTER         @D30EULR 35815631
000A86 18EA                      722+         LR    RE,RA               COPY PIB-POINTER              @D30EULR 35816731
000A88 4BE0 0BDE          00BDE  723+         SH    RE,PIBDIFF          POINT TO PIB EXTENSION        @D30EULR 35817531
                                 724+         DROP  RA                  DROP PIB BASE                 @DM11453 35818031
                          00000  725+         USING PIBADR,RE           ESTABLISH ADDRESSABILITY      @D30EULR 35818331
000A8C BFE3 E000          00000  726+         ICM   RE,M3,PIBCOMRA      LOAD ADDR OF COMREG           @D30EULR 35819131
                          00000  727+         USING COMREG,RE                                         @DM11453 35820031

                          00000  729+         USING PIBADR,RA           RESTORE PIB ADDRESSING        @DM11453 35820531
000A90 9120 E0A4    000A4        730+         TM    POWFLG1,POWPART     IS IT POWER PARTITION         @D30EULR 35820631
                                 731+         DROP  RE                  DROP COMREG BASE              @DM11453 35820731
000A94 47E0 0AC6    00AC6        732+         BNO   ERRGO3              BRANCH IF NOT POWER PART      @D30EULR 35821031
000A98 4400 B2D2          012D2  733+         EX    R0,COMPCLC          WAS CANCEL IN LTA             @D30EULR 35821231
000A9C 4770 0AC6    00AC6        734+         BNE   ERRGO3              BRANCH IF NOT                 @D30EULR 35821431
000AA0 9200 A001    00001        735+         MVI   PIBCNCL,X00         RESET CANCEL CODE             @D30EULR 35821631
                                 736+         DROP  RA                  DROP PIB BASE                 @DM11453 35821731
000AA4 48E0 06AA          006AA  737+         LH    RE,YPIBTAB          POINT TO                      @D30EULR 35821831
                          00000  738+         USING PIBADR,RE           ESTABLISH ADDRESSABILITY      @D30EULR 35821931
000AA8 BFE7 E009          00009  739+         ICM   RE,M7,PIBSAV2+1     PARTITION SAVE AREA           @D30EULR 35822031
                          00000  740+         USING SVEARA,RE           ESTABLISH ADDRESSABILITY      @D30EULR 35822131
000AAC 58E0 E018          00018  741+         L     RE,SVER0B           PICK UP TCB (RB)              @D30EULR 35822231
000AB0 92E4 E031    00031        742+         MVI   TERMBYTE(RE),C'U'   POST ERROR CODE               @D30EULR 35822331
000AB4 18EA                      743+         LR    RE,RA               COPY PIB-POINTER              @D30EULR 35822631
000AB6 4BE0 0BDE          00BDE  744+         SH    RE,PIBDIFF          POINT TO PIB EXTENSION        @D30EULR 35822731
                          00000  745+         USING PIBADR,RE           ESTABLISH ADDRESSABILITY      @D30EULR 35822831
000ABA BFE3 E000          00000  746+         ICM   RE,M3,PIBCOMRA      LOAD ADDR OF COMREG           @D30EULR 35822931
                          00000  747+         USING COMREG,RE           ESTABLISH ADDRESSABILITY      @DM11453 35823031
000ABE 94FB E058    00058        748+         NI    LIOCSCOM,X'FB'      RESET LIOCS INDICATOR         @DM11453 35823231
000AC2 47F0 0ADE    00ADE        749+         B     ERRSETB             FREE LTA                      @D30EULR 35823431
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000AC6 9102 E039      00039         751+ERRGO3   TM    JCSW2,FCHQ          TEST FOR CIL UPDATE ERROR    @DM11453 35832031
000ACA 4710 0B04      00B04         752+         BO    CILUPERR            HARDWAIT IF CIL UPDATE ERROR @DL29ZCJ 35843829
                                    753+         DROP  RE                  DROP COMREG BASE             @DM11453 35844331
                            00000   754+         USING PIBADR,RA           RESTORE PIB ADDRESSING       @DM11453 35844831
000ACE 960C A00F      0000F         755+         OI    PIBFLG2,CNCLD+FETCHEOJ  SET CANCEL IN PROGRESS           35863629
000AD2 07FF                         756+         BR    RF .                GOTO EXIT OR TURNOFF                FR 35960928
000AD4 960C A00F      0000F         757+ERRSET   OI    PIBFLG2,CNCLD+FETCHEOJ  SET CANCEL IN PROGRESS           36240028
000AD8 4400 0FAC            00FAC   758+ERRSETA  EX    R0,SVC2WAIT .       DOES TASK OWN THE LTA                36360028
000ADC 077F                         759+         BCR   NE,RF .             NO, EXIT                             36440028
000ADE 9200 06BF      006BF         760+ERRSETB  MVI   LTKEY+1,ZERO         RESET LOGICAL TRANSIENT KEY  @DM11453 36640031
000AE2 9283 0967      00967         761+         MVI   TRTLTK,READY .      RELEASE LTK                          36720028
000AE6 9200 0751      00751         762+         MVI   LIK+1,ZERO .        CLEAR LIK                            36800028
000AEA 50D0 084C            0084C   763+         ST    RD,SAVERD .         SAVE CALLER'S BASE REG.      @D34RDFG 36820034
000AEE 58D0 088C            0088C   764+         L     RD,PGMBASE          LOAD SGPGM BASE              @D34RDFG 36850034
                            0E1E4   765+         USING SGPGM,RD                                         @D34RDFG 36900034
000AF2 4560 D0CA            0E2AE   766+         BAL   R6,SETLT .          SWAP SAVE AREA POINTERS              37040028
                                    767+         DROP  RD                                               @D34RDFG 37060034
000AF6 58D0 084C            0084C   768+         L     RD,SAVERD           RESTORE CALLER' BASE REG.    @D34RDFG 37070034
000AFA 5860 086C            0086C   769+         L     R6,DISPAD .         RESTORE EXIT ADDRESS        @DM15356  37080033
000AFE 07FF                         770+         BR    RF .                RETURN OR EXIT                       37120028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000B00 06B0                       773+HARDW$$A BCTR  RB,D0 .          $$A PHASE NOT FOUND          @DM11640 37194434
000B02 06B0                       774+HARDWTF5 BCTR  RB,D0 .          CODE X'FF5' TFIX COUNT PAST  @DA02646 37194834
                                  775+*                               MAX VALUE OR MINUS ZERO      @DA02646 37195234
000B04 06B0                       776+CILUPERR BCTR  RB,D0 .          CODE X'FF6' CIL UPDATE ERROR @DL29ZCJ 37195634
000B06 06B0                       777+CCWTERR  BCTR  RB,D0 .          CODE X'FF7'NOT ENOUGH C.BUF.FOR Z0849 37196028
                                  778+*                                BTAM SECOND TIME TRANSLATION   Z0849 37198028
000B08 06B0                       779+CRTNFND  BCTR  RB,D0 .          CODE X'FF8' CRT PHASE NOT FOUND    EM 37200028
000B0A 06B0                       780+HARDWTF9 BCTR  RB,D0 .          CODE X'FF9' I/O ERROR ON PAGE DEVICE  37202028
000B0C 06B0                       781+HARDWTFA BCTR  RB,D0 .          CODE X'FFA' FOR TRANSLAT. SPEC. ERROR 37204028
000B0E 06B0                       782+HARDWTFB BCTR  RB,D0 .          CODE X'FFB' FOR PAGE FAULT IN SUPERV. 37206028
000B10 06B0                       783+         BCTR  RB,0 .           SKIP CODE X'FFC'                      37218028
000B12 06B0                       784+         BCTR  RB,0 .           SKIP CODE X'FFD'                      37220028
000B14 06B0                       785+FTCHIOER BCTR  RB,D0 .          CODE X'FFE' FETCH I/O ERROR  @DA01549 37224029
000B16 06B0                       786+SUPPCK   BCTR  RB,D0 .          CODE X'FFF' FOR PROGR CK IN SUPERV.   37226028
000B18 50B0 0000            00000 787+         ST    RB,ZERO          STORE HARDWAIT CODE          @DM03021 37232428
000B1C 8200 0840      00840       788+         LPSW  DUMMYPSW .       GO TO HARD WAIT                       37234028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   790+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 37801028
                                   791+*                                                                           * 37802028
                                   792+*        SET UP OF CHANNEL QUEUE-, PIB- AND CCB POINTER                     * 37803028
                                   793+*                                                                           * 37805028
                                   794+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 37806028

000B20 1B11                        796+CQDSP    SR    R1,R1 .             CLEAR CCB REGISTER                        37840028
000B22 D300 0870 3004 00870 00004  797+MVZONE   MVZ   DEVZON,PUBDEVTY .   GET ZONE OF DEVICE TYPE            403 37841028
000B28 95FF 3002      00002        798+         CLI   PUBCHQPT,NOTQUED .  CCB STILL AVAILABLE?              435 37880028
000B2C 0787                        799+         BCR   E,R7 .              NO,RETURN                                 37920028
000B2E 1841                        800+         LR    R4,R1 .             LR FASTER THAN SR                         37960028
000B30 4340 3002           00002   801+         IC    R4,PUBCHQPT .       GET CHANNEL QUEUE INDEX                   38000028
000B34 8940 0003           00003   802+         SLL   R4,L3 .             CALCULATE DISPLACEMENT              191 38040028
000B38 5A40 071C           0071C   803+         A     R4,ACHANQ .         SET UP CHANNEL QUEUE POINTER              38080028
000B3C 18A1                        804+         LR    RA,R1 .             LR FASTER THAN SR                         38160028
000B3E 43A0 4007           00007   805+         IC    RA,TKREQID .        GET TASK IDENTIFIER                       38200028
000B42 4AA0 06AA           006AA   806+         AH    RA,YPIBTAB .        SET UP PIB POINTER                        38240028
000B46 5810 4000           00000   807+         L     R1,CHQCCBAD .       LOAD CCB ADDRESS                    127 38320028
000B4A 07F7                        808+         BR    R7 .                RETURN                                    38360028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   810+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 40641028
                                   811+*                                                                                 * 40642028
                                   812+*        DE- ACTIVATE FETCH                                                       * 40643028
                                   813+*                                                                                 * 40644028
                                   814+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 40645028

                             00B4C   816+FCHEXIT  EQU   * .                                                          KR 40656028
000B4C 4880 067E             0067E   817+         LH    R8,PIK .           GET PARTITION ID                         KR 40678028
000B50 8880 0003             00003   818+         SRL   R8,L3 .            GET PIK/8                                KR 40678428
000B54 4188 0027             00027   819+         LA    R8,AMBNDBG-D2(R8)  GET BND CONDITION FOR THIS TASK          KR 40678828
000B58 4188 08E6             008E6   820+         LA    R8,RETAB(R8) .     GET ADDR.OF CORRESPONDING TRT-BYTE       KR 40679228
000B5C 9283 8000      00000          821+         MVI   D0(R8),READY .     INDICATE VSAM-RESOURCE FREE              KR 40679628
                             00B60   822+FCHEXT   EQU   * .                                                          KR 40679828
000B60 9200 073D      0073D          823+         MVI   SELECT,ZERO .      DEACTIVATE SUPERVISOR                    KR 40680028
000B64 9204 087F      0087F          824+         MVI   RID+D1,REENTRID .  IDENTIFY REENTRANT ROUTINE               FR 40700028
000B68 94FE 073A      0073A          825+         NI    SYSFLAG3,X'FF'-PDFLAG RESET SYSTEM FETCH FLAG              466 40700229
000B6C 947F 0B79      00B79          826+         NI    FCHGATE,XFF-CLOSE  OPEN FETCH GATE                  @DL29ZCJ 40700429
000B70 5860 086C             0086C   827+         L     R6,DISPAD          SET EXIT POINTER                 @DM05239 40700833
                             00B74   828+FCHCLR   EQU   *                    FREE FETCH RESOURCE              @DL29ZCJ 40701229
000B74 9102 0689      00689          829+         TM    LCBYTE,FCHQ        CHECK IF FETCH ENQUEUED          @DL29ZCJ 40702029
000B78 0779                          830+         BNZR  R9                 YES, EXIT W/O FREEING            @DL29ZCJ 40704029
                             00B79   831+FCHGATE  EQU   *-1                 BR. FORCED WHEN FETCH ACTIVE @DL29ZCJ 40704429
000B7A 9283 0955      00955          832+         MVI   TRTIDRA,READY .   SET IDRA FREE                          IDRA 40763028
000B7E 07F9                          833+         BR    R9 .               RETURN                                       40920028

                                   835+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 41241028
                                   836+*                                                                                 * 41242028
                                   837+*        EXIT FROM THE SUPERVISOR. THE NEXT TASK READY TO RUN IS                  * 41243028
                                   838+*        SELECTED FOR PROCESSING.                                                 * 41243228
                                   839+*                                                                                 * 41244028
                                   840+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 41245028

                             00B80   842+EXIT     EQU   * .                                                  @DM15356 41358033
000B80 5860 086C             0086C   843+         L     R6,DISPAD .        ADDRESS OF DISPATCHER            @DM15356 41408033
000B84 07F6                          844+         BR    R6 .               GOTO DISPATCH NEXT TASK          @DM15356 41458033
                                   845+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 47890631
                                   846+*                                                                                 * 47914431
                                   847+*        NORMAL INTERFACE BETWEEN AN INPUT/OUTPUT OPERATION                       * 47938231
                                   848+*        AND THE SUPERVISOR.                                                      * 47962031
                                   849+*                                                                                 * 47985831
                                   850+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 48009631

000B86 9238 0BFD      00BFD          852+ENTIO    MVI   HLDPSW,IOOLDPSW .  IDENTIFY OLD PSW                                48057231
000B8A 9500 087F      0087F          853+         CLI   RID+D1,SYSTEMID    WAS SYSTEM RUNNING                   @DA00589 48129631
000B8E 4770 0B9E      00B9E          854+         BNE   NOSYS1             BR IF NO                             @DA00589 48131631
000B92 9102 0039      00039          855+         TM    IOOPSW+D1,WAITBIT  FROM ALLBOUND STATE                  @DA00589 48132631
000B96 4710 0D3C      00D3C          856+         BO    ALBEXIT            BR IF YES                            @DA00589 48133631
000B9A 47F0 0D6C      00D6C          857+         B     JAOHD              OVERHEAD IF NOT ALLBOUND             @DA00589 48134631
                             00B9E   858+NOSYS1   EQU   *                                                      @DA00589 48135631
000B9E 909E 0850             00850   859+         STM   R9,RE,ERA .        SAVE USER REGISTERS.                             48200028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000BA2 5890 070C            0070C   860+         L     R9,AINTER                                          @DA01239 48242531
000BA6 58B0 00B8            000B8   861+         L     RB,IOINF .          GET I/O INTERRUPTION CODE                 48280028

                                    863+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 48281028
                                    864+*                                                                       * 48282028
                                    865+*       GENERAL ENTRY: INTERRUPT STATUS WILL BE SAVED HERE              * 48283028
                                    866+*                                                                       * 48285028
                                    867+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 48286028

                            00BAA   869+GENENT   EQU   * .                GENERAL ENTRY ROUTINE                    48320028
000BAA 48A0 0752            00752   870+         LH    RA,TIK .           SET UP PIB EXTENSION POINTER       AP    48960028
                            00000   871+         USING PIBADR,RA .        SET ADDRESSABILITY                463    49011028
000BAE 9500 073D      0073D         872+         CLI   SELECT,ZERO .      ANY SYSTEM TASK INTERRUPTED ?      RH    49040028
000BB2 4780 0BD0      00BD0         873+         BE    GEN1 .             NO, USER TASK INTERRUPTED          RH    49080028
                            00000   874+         USING SYSBLKS,RB .       SYSTEM TASK BLOCK POINTER                49160028
000BB6 58B0 0794            00794   875+         L     RB,ASYSBLKX .      LOAD SYSTEM TASK BLOCK POINTER     FR    49180028
000BBA D200 B004 09AA 00004 009AA   876+         MVC   SYSJAID,ACCTRAID . SAVE RUNNING ACT ID                      49440028
000BC0 42A0 B002            00002   877+         STC   RA,SYSPIK .        SAVE &TIK IN THE SYSTEM TASK BLOCK FR    49760028
000BC4 4AA0 06AA            006AA   878+         AH    RA,YPIBTAB .       POINTER TO PIB                     RH    49780028
000BC8 58B0 B004            00004   879+         L     RB,SYSAVAR .       GET SYSTEM TASK SAVE AREA          RH    49800028
000BCC 47F0 0BF8      00BF8         880+         B     SYSSAVE0 .         SAVE PSW AND GENERAL REGISTERS     RH    49840028
000BD0 4AA0 06AA            006AA   881+GEN1     AH    RA,YPIBTAB .       POINTER TO PIB                     RH    49890028
000BD4 4BA0 0BDE            00BDE   882+         SH    RA,PIBDIFF .       POINTER TO PIB EXTENSION                 49963028
000BD8 50B0 A004            00004   883+         ST    RB,INTINFO .       STORE INTERRUPT INFORMATION        RH    50000028
000BDC 41AA 0100            00100   884+LAPIB    LA    RA,PIBTAB-PIB2TAB(RA) SET UP PIB POINTER          @D34UDFR 50001034
                            00BDE   885+PIBDIFF  EQU   LAPIB+2 .           DISP.BETWEEN PIB AND PIB EXT.@D34UDFR 50002034
                            00BE0   886+PFGENENT EQU   *                                                  @D34UDFR 50003034
000BE0 58B0 A004            00004   887+LTAPROC  L     RB,PIBSAVE .       GET SAVE AREA ADDRESS                    50200028
000BE4 9200 087F      0087F         888+         MVI   RID+D1,SYSTEMID .  INDICATE SYSTEM WORKING TO PFFLIH  FR    50220028
                            00000   889+         USING SVEARA,RB .        SAVE AREA POINTER                  RH    50240028
000BE8 6000 B058            00058   890+         STD   FPR0,SVEFP0 .      SAVE FP REGISTER 0                 JK    50320028
000BEC 6020 B060            00060   891+         STD   FPR2,SVEFP2 .      SAVE FP REGISTER 2                 JK    50360028
000BF0 6040 B068            00068   892+         STD   FPR4,SVEFP4 .      SAVE FP REGISTER 4                 JK    50400028
000BF4 6060 B070            00070   893+         STD   FPR6,SVEFP6 .      SAVE FP REGISTER 6                 JK    50440028
                            00BFC   894+OLDPSW   EQU   *+4 .              POINTER TO OLD PSW                 FR    50500028
                            00BFD   895+HLDPSW   EQU   OLDPSW+1  .        POINTER TO OLD PSW                 FR    50504028
000BF8 D207 B008 0000 00008 00000   896+SYSSAVE0 MVC   SVEPSW(L8),ZERO  .  SAVE THE OLD PSW                    FR    50560028
000BFE D217 B010 0850 00010 00850   897+         MVC   SVER09(L24),ERA .  SAVE REGISTERS R9 THROUGH RE        46    50600028
000C04 90F8 B028            00028   898+SYSSAVE1 STM   RF,R8,SVER0F .     SAVE REGISTERS RF THROUGH R8             50640028
000C08 5860 086C            0086C   899+AEXIT    L     R6,DISPAD .        SET UP EXIT ADDRESS              @DM15356 50680033
000C0C 9180 0830      00830         900+         TM    SUPFLAG,TIMERSET   CPU TIMER INTERRUPT SET?        @D34UDFR 50682834
000C10 4780 0C24      00C24         901+         BZ    NOTTIME            BRANCH IF NO                     @D34UDFR 50683534
000C14 947F 0830      00830         902+         NI    SUPFLAG,XFF-TIMERSET RESET TIMER SET INDICATOR      @D34UDFR 50684234
000C18 58B0 07A8            007A8   903+         L     RB,ATTTAB          POINTER TO TTTAB                 @D34UDFR 50685634
000C1C B209 B008      00008         904+         STPT  TTIME-TTTAB(RB)    SAVE TIMER VALUE                 @D34UDFR 50685734
000C20 B208 0838      00838         905+SPTHTIME SPT   HTIME              SET TIMER TO HIGH VALUE          @D34UDFR 50713634
                            00C24   906+NOTTIME  EQU   *                                                  @D34UDFR 50714334
000C24 58B0 0844            00844   907+         L     RB,HEX1000 .       ESTABLISH ADDRESSABILITY                 50720028
                            00000   908+         USING ACCTABLE,R3                                                 50840028
000C28 D200 09A9 09AA 009A9 009AA   909+JAENTRY  MVC   ACCTFAID,ACCTRAID .SAVE RAID FOR SAMETASK EXIT       JB    50880028
000C2E 9500 09AA      009AA         910+         CLI   ACCTRAID,JAOHID .  IS OVERHEAD RUNNING               JB    50920028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000C32 0789                       911+         BCR   E,R9 .              DO NOT COUNT IF SO                JB 50960028
000C34 45F0 0D7E           00D7E  912+         BAL   RF,JATIMER .        GO TO JOB ACCOUNTING ROUTINE      EM 51000028
                           00C38  913+NOTJAT   EQU   *                                                        51040028
000C38 1B44                       914+         SR    R4,R4 .             CLEAR REGISTER                       51120028
000C3A 4340 09AA           009AA  915+         IC    R4,ACCTRAID .       POINT TO PARTITION TABLE          JB 51160028
000C3E 8840 0002           00002  916+         SRL   R4,L2 .             * BY USING THE PARTITION ID       JB 51200028
000C42 5834 09B4           009B4  917+         L     R3,ACCTBLES-4(R4) .* DIVIDED BY 4 AS AN INDEX           JB 51240028
000C46 5E50 301C           0001C  918+         AL    R5,ACCTCPUT .       UPDATE CPU TIME COUNTER           JB 51280028
000C4A 5050 301C           0001C  919+         ST    R5,ACCTCPUT .       STORE NEW VALUE                   JB 51320028
000C4E 9110 0BFD      00BFD        920+         TM    HLDPSW,SVCPCINT .   WAS INTERRUPT A SVC OR P/C       JB 51360028
000C52 0789                       921+         BCR   Z,R9 .              IF YES, LEAVE CPU TIME RUNNING       51400028
000C54 9200 09AA      009AA        922+         MVI   ACCTRAID,JAOHID .   POST TO RUN WITH OVERHEAD          JB 51440028
000C58 07F9                       923+         BR    R9 .                RETURN                               51520028
                           00000  924+         USING SVEARA,R8 .         SAVE AREA PIONTER                 AC 51560028
                           00000  925+         USING PUBADR,R3 .         RESET STANDARD USING                 51600028
                           01000  926+         USING SYSS00+X'1000',RB .BASE REGISTER                      AC 51640028


                                  928+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 51681028
                                  929+*                                                                     * 51682028
                                  930+*        NORMAL INTERFACE BETWEEN THE PROBLEM PROGRAM AND SUPERVISOR. * 51683028
                                  931+*                                                                     * 51684028
                                  932+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 51685028

000C5A 909E 0850           00850  934+ENTSVC   STM   R9,RE,ERA .         SAVE ENTRY REGISTERS             D77 52120028


                                  936+*        THIS HOOK DEPENDS ON REG 9,10,11,12 BEING STORED AT ERA    ALF 52240028
                                  937+*        AND THOSE REG BEING AVAILABLE FOR USE. ALSO THE VALUE OF   ALF 52280028
                                  938+*        THE PIK MUST BE CORRECT AT THIS TIME. THE HOOK WILL BE     ALF 52320028
                                  939+*        USED BY THE FOLLOWING PDAID ROUTINES: GSVC TRACE           ALF 52360028
                                  940+*                                              F/L TRACE           ALF 52400028
                                  941+*                                              QTAM TRACE      @DL29H00 52410029
                                  942+*                                              VTAM TRACE      @DL29H00 52420029

000C5E 47F0 0CC0      00CC0        944+PDFLTHK1 B     NOPDFLT1 .          BRANCH UNLESS F/L TRACE ACTIVE       52480028
000C62 9107 008B      0008B        945+         TM    SVCCODE,WAIT .      TEST FOR A SVC 0 OR A SVC 7       ALF 52520028
000C66 47B0 0CC0           00CC0  946+         BC    NM,NOPDFLT1 .       IT IS ONE OF THESE, BRANCH        ALF 52560028
                                  947+*  ABOVE INSTR IS CHANGED TO A NOP FOR GSVC,QTAM OR VTAM TRACES@DL29H00 52570029
000C6A 9500 0955      00955        948+         CLI   TRTIDRA,ZERO .      IS IDRA IN USE                @DM06072 52574029
000C6E 4770 0CB0      00CB0        949+         BNE   PDFLINO .           NO,SVC NOT OVERLAID           @DM06072 52576029
000C72 4190 000B           0000B  950+         LA    R9,L'PDFLTAB .      GET LENGTH OF TABLE           @DM06072 52578029
000C76 41C0 0CA4           00CA4  951+         LA    RC,PDFLTAB .        POINT TO FIRST TRACE SVC      @DM06072 52580029
000C7A D500 008B C000 0008B 00000 952+PDFLTLP  CLC   SVCCODE(L1),ZERO(RC) . IS SVC TO BE TRACED       @DM06072 52582029
000C80 4780 0C90      00C90        953+         BE    PDFLRES .           SAVE SVC FROM FETCH           @DM06845 52584029
000C84 41CC 0001           00001  954+         LA    RC,1(RC) .          POINT TO NEXT VALUE           @DM06072 52586029
000C88 4690 0C7A           00C7A  955+         BCT   R9,PDFLTLP .        LOOP OVER TABLE               @DM06072 52588029
000C8C 47F0 0CB0      00CB0        956+         B     PDFLINO .           NOT CRITICAL, CONTINUE        @DM06072 52590029
000C90 9220 0BFD      00BFD        957+PDFLRES  MVI   HLDPSW,SVCOPSW .    IDENTIFY OLD PSW              @DM06845 52590529
000C94 58B0 0088           00088  958+         L     RB,SVCINF .         GET SVC INTERRUPTION CODE     @DM06845 52591029
000C98 4590 0BAA           00BAA  959+         BAL   R9,GENENT .         INITIALIZE ENTRY              @DM06845 52591529
000C9C 4140 006F           0006F  960+         LA    R4,IDRABND          SET IDRABOUND CONDITION       @DA02846 52592833
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000CA0 47F0 0FE0      00FE0          961+         B     RESVCX                                                @DA02846 52593033
000CA4 0102030405060B0E              962+PDFLTAB  DC    X'0102030405060B0E303341'                             @DM06072 52593233
                                     963+*        THIS SVC'S ARE USED IN F/L TRACE ENTRY                 @DM06072 52594029
000CB0                               964+PDFLINO  DS    0H .                ALIGNE AND CONT TRACE             @DM06072 52596029
000CB0 5890 0740             00740   965+         L     R9,PDARPTR .        LOAD PD AREA BASE REGISTER             487 52600028
                             14A60   966+         USING PDAREA,R9 .         USE R9 AS BASE REGISTER                487 52640028
000CB4 41B0 0850             00850   967+         LA    RB,ERA .            GET ADDR OF SAVE AREA OF REG 9-11 ALF 52760028
000CB8 48C0 067E             0067E   968+         LH    RC,PIK .            PASS THE PIK VIA REG. 12               466 52770028
000CBC 45A0 9068             14AC8   969+         BAL   RA,PDENTRY3 .       GO TO THE F/L TRACE ROUTINE            ALF 52800028
                             00CC0   970+NOPDFLT1 EQU   * .                                                    ALF 52840028
                             02EDA   971+         USING INTRTN,R9 .         DECLARE STANDARD ADDRESSING            ALF 52880028
000CC0 9220 0BFD      00BFD          972+         MVI   HLDPSW,SVCOPSW .    IDENTIFY OLD PSW                           52960028
000CC4 58B0 0088             00088   973+         L     RB,SVCINF .         GET SVC INTERRUPTION CODE              126 53000028
000CC8 4590 0BAA             00BAA   974+         BAL   R9,GENENT .         INITIALIZE ENTRY                           53040028
000CCC 9500 073D      0073D          975+         CLI   SELECT,ZERO         SVC ISSUED BY SYSTEM TASK    @DA10337 53046034
000CD0 4770 0CE8      00CE8          976+         BNE   NOSYN1              YES,DO NOT TEST FOR SYNCH    @DY11881 53046534
000CD4 4BA0 0BDE             00BDE   977+         SH    RA,PIBDIFF          POINTER TO PIB EXTENSION     @D33PAGA 53050033
000CD8 9104 A00F      0000F          978+         TM    PIBFLG3,PIBSVCK     SYNCH SVC SCREENING ACTIVE   @D33PAGA 53055033
000CDC 58D0 0894             00894   979+         L     RD,APBASE           LOAD SGAP BASE               @D34RDFG 53056034
                             0E722   980+         USING SGAP,RD                                          @D34RDFG 53057034
000CE0 4710 D77A      0EE9C          981+         BO    RSTSYNCH            BRANCH IF YES                @D33PAGA 53060033
                                     982+         DROP  RD                                               @D34RDFG 53062034
000CE4 4AA0 0BDE             00BDE   983+         AH    RA,PIBDIFF          POINTER TO PIB               @D33PAGA 53065033
000CE8                               984+NOSYN1   DS    0H                                             @DA10337 53070034
000CE8 9562 008B      0008B          985+         CLI   SVCCODE,(SVCTABND-SVCTAB)/4-1 ILLEGAL SVC?     @D34SDJO 53075034
000CEC 4720 09EA      009EA          986+         BH    ERR21 .             YES,CANCEL                             53120028
000CF0 48C0 008A             0008A   987+SVCINDEX LH    RC,SVCINTC          PICK UP SVC CODE             @D34RDFG 53140034
000CF4 18DC                          988+         LR    RD,RC               ERASE BYTES 0,1,2 OF RD      @D34RDFG 53160034
000CF6 1ACC                          989+         AR    RC,RC               CALCULATE                    @D34RDFG 53160634
000CF8 1ACC                          990+         AR    RC,RC                ADDRESS OF                  @D34RDFG 53161234
000CFA 5AC0 08BC             008BC   991+         A     RC,ASVCTAB             SVCTAB ENTRY              @D34RDFG 53161834
000CFE 43DC 0000             00000   992+         IC    RD,0(RC)            GET OFFSET OF BASE ADDR.     @D34RDFG 53162434
000D02 58DD 0880             00880   993+         L     RD,SVCBASE(RD)      LOAD BASE ADDRESS            @D34RDFG 53220034
000D06 58CC 0000             00000   994+         L     RC,0(RC)            LOAD ADDR. OF SVC ROUTINE    @D34RDFG 53290034
000D0A 9204 087F      0087F          995+         MVI   RID+D1,REENTRID     INDICATE REENTRANT SVC TO PFFLIH   FR 53340034
000D0E 07FD                          996+         BR    RD                  BRANCH TO BASE ADDRESS       @D34RDFG 53390034
000D10 07FC                          997+BRDIRECT BR    RC                  BRANCH TO SVC ROUTINE        @D34RDFG 53440034


                                     999+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 54120228
                                    1000+*                                                                           * 54120428
                                    1001+*       NORMAL INTERFACE BETWEEN AN MICR OPERATION, AN TIMER                * 54120628
                                    1002+*       INTERRUPT OR THE OPERATOR AND THE SUPERVISOR.                       * 54120728
                                    1003+*                                                                           * 54120828
                                    1004+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 54120928

000D12 9218 0BFD      00BFD         1006+ENTEXT   MVI   HLDPSW,EXOLDPSW     IDENTIFY OLD PSW                           54155128
000D16 9500 087F      0087F         1007+         CLI   RID+D1,SYSTEMID     WAS SYSTEM RUNNING           @DA00589 54522031
000D1A 4770 0D2A      00D2A         1008+         BNE   NOSYS2              BR IF NOT                    @DA00589 54524031
000D1E 9102 0019      00019         1009+         TM    EXOLDP+D1,WAITBIT   FROM ALLBOUND                @DA00589 54525031
000D22 4710 0D3C      00D3C         1010+         BO    ALBEXIT             BR IF YES                    @DA00589 54526031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000D26 47F0 0D6C      00D6C        1011+          B     JAOHD                                          @DA00589 54527031
                            00D2A  1012+NOSYS2    EQU   *                                              @DA00589 54528031
000D2A 909E 0850            00850  1013+          STM   R9,RE,ERA          SAVE ENTRY REGISTERS        @DA00589 54533031
000D2E 58B0 0084            00084  1014+          L     RB,EXTINF                                      @DA01239 54573031
000D32 4590 0BAA            00BAA  1015+          BAL   R9,GENENT .        INITIALIZE ENTRY                      54600028
000D36 58E0 0878            00878  1016+EXTERN    L     RE,AEXTRTN .       SET BASE FOR EXTERNAL INTERRUPT       54601028
000D3A 07FE                        1017+          BR    RE .               GO TO PROCESS INTERRUPT               54602028


                            00D3C  1019+ALBEXIT   EQU   * .                                                 KR 55170028
000D3C 4400 0C28            00C28  1020+          EX    R0,JAENTRY .       SAVE RUNNING ID                       55800028
000D40 45F0 0D7E            00D7E  1021+          BAL   RF,JATIMER .       CALCULATE DURATION OF INTERVAL        55840028
                            00000  1022+          USING ACCTABLE,R3 .      DECLARE BASE REG FOR PARTITIONS       55841028
000D44 4A50 09A2            009A2  1023+          AH    R5,ACCTSVRE .      ADD REMAINDER OF PREVIOUS DIVISION JB 55920028
000D48 5D40 09A4            009A4  1024+          D     R4,ACCTPCNT .      DIVIDE ALLBOUND TIME BY NO. OF ACT.JB 55960028
000D4C 4040 09A2            009A2  1025+          STH   R4,ACCTSVRE .      * BATCH PARTITIONS, SAVE REMAINDER JB 56000028
000D50 4800 0724            00724  1026+          LH    R0,NPART .         LOAD LOOP COOUNT                   UL 56040028
000D54 1BEE                        1027+          SR    RE,RE .                                               UL 56080028
000D56 583E 09B8            009B8  1028+JALOOP1   L     R3,ACCTBLES(RE) .  POINT TO PARTITION TABLE           UL 56120028
000D5A 1845                        1029+          LR    R4,R5 .            CALCULATE NEW ALLBOUND TIME FOR    JB 56240028
000D5C 5E40 3024            00024  1030+          AL    R4,ACCTBNDT .      * THE PARTITION AND STORE THIS     UL 56280028
000D60 5040 3024            00024  1031+          ST    R4,ACCTBNDT .      * VALUE BACK INTO THE TABLE        JB 56320028
000D64 41EE 0004            00004  1032+          LA    RE,4(RE) .         INCREMENT INDEX TO ADDRESS TABLE   UL 56360028
000D68 4600 0D56            00D56  1033+          BCT   R0,JALOOP1 .       REPEAT FOR EACH PARTITION          UL 56400028
000D6C 9200 09AA      009AA        1034+JAOHD     MVI   ACCTRAID,JAOHID .  POST OVERHEAD TO RUN             @DA00061 56480028
000D70 5890 070C            0070C  1035+          L     R9,AINTER .        SET BASE FOR I/O INTERRUPT            56482934
000D74 9538 0BFD      00BFD        1036+          CLI   HLDPSW,IOOLDPSW .  WAS THIS AN I/O INTERRUPT             56483028
000D78 0789                        1037+          BCR   E,R9 .             YES,PROCESS INTERRUPT                 56484028
000D7A 47F0 0D36      00D36        1038+          B     EXTERN .           RETURN TO EXTERNAL INTERRUPT          56485028


                                   1040+*************************************************************** 56487028
                                   1041+*        THE PURPOSE OF THIS ROUTINE IS TO INITIALIZE THE JOB   * 56488028
                                   1042+*        ACCOUNTING POINTERS AND THE TIMER INTERVAL UPON AN INTERRUPT * 56489028
                                   1043+*************************************************************** 56490028

000D7E                             1045+JATIMER   DS    0H                                             @D34NE9E 56493634
000D7E 5830 0050            00050  1046+          L     R3,SYSTIMER        GET HARDWARE TIMER          @D34NE9E 56496234
000D82 5530 B628            01628  1047+          CL    R3,MAXVAL .        HAS TIMER GONE NEGATIVE         DT57 56496734
000D86 47D0 0D92      00D92        1048+          BNH   NOTNEG .           NO, SHIFT LOGICAL               DT57 56496934
000D8A 8A30 0008            00008  1049+          SRA   R3,L8 .             SHIFT FOR DURATION CALCUL      KF456 56497128
000D8E 47F0 0D96      00D96        1050+          B     CALCDUR .          GO TO DURATION CALCULATION      DT57 56498328
000D92 8830 0008            00008  1051+NOTNEG    SRL   R3,L8 .            * ADD THE NEW POSITIVE TIME     DT57 56502828
                            00D96  1052+CALCDUR   EQU   * .                                             @DA00047 56508228
000D96 5F30 0054            00054  1053+          SL    R3,SYSTOD .          * CALCULATED FROM LOC.80/84 @DA00047 56510228
000D9A 1353                        1054+          LCR   R5,R3 .            * AND THE OLD NEGATIVE TIME @DA04919 56511633
000D9C 5E50 09AC            009AC  1055+          AL    R5,ACCTIME .       * STORED IN ACCTIME             DT57 56516028
000DA0 1045                        1056+          LPR   R4,R5              GET POSITIVE VALUE DURATION @DA04919 56516233
000DA2 1545                        1057+          CLR   R4,R5              SHOULD BE EQUAL             @DA04919 56516433
000DA4 4780 0DAA      00DAA        1058+          BE    DUROK              BRANCH IF CORRECT           @DA04919 56516633
000DA8 1B55                        1059+          SR    R5,R5              IGNORE DURATION             @DA04919 56518233
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000DAA 5030 09AC            009AC  1060+DUROK    ST    R3,ACCTIME .       SAVE NEW START TIME(NEGATIVE)@DA04919 56520433
000DAE 1B44                        1061+         SR    R4,R4 .            CLEAR REGISTER                          56542428
000DB0 07FF                        1062+         BR    RF .               RETURN                                  56551228


000DB2 D200 09A9 067F 009A9 0067F  1064+JAXIT    MVC   ACCTFAID,PIK+1 .   SET ID OF NEXT TASK                JB 56560028
000DB8 D500 09A9 09AA 009A9 009AA  1065+JAXITS   CLC   ACCTFAID,ACCTRAID .IS LAST USER SAME AS NEXT           JB 56600028
000DBE 0787                        1066+         BCR   E,R7 .             RETURN IF YES                     JB 56640028
000DC0 45F0 0D7E            00D7E  1067+         BAL   RF,JATIMER .       CALCULATE DURATION OF INTERVAL    EM 56680028
000DC4 9500 09AA      009AA        1068+         CLI   ACCTRAID,JAOHID .  TEST FOR OVERHEAD OR CPU TIME     JB 56720028
000DC8 4770 0DFC      00DFC        1069+         BNE   JAXPP .            BRANCH IF CPU TIME                JB 56760028
000DCC 4A50 09A0            009A0  1070+         AH    R5,ACCTSVRX .      ADD REMAINDER OF OVERHEAD TIME    JB 56840028
000DD0 5D40 09A4            009A4  1071+         D     R4,ACCTPCNT .      DIVIDE TIME BY NO. OF ACTIVE BATCH JB 56880028
000DD4 4040 09A0            009A0  1072+         STH   R4,ACCTSVRX .      * PARTITIONS AND SAVE REMAINDER  DT44 56920028
000DD8 4800 0724            00724  1073+         LH    R0,NPART .         LOAD LOOP COOUNT                  UL 56960028
000DDC 1BEE                        1074+         SR    RE,RE .                                              UL 57000028
000DDE 583E 09B8            009B8  1075+JALOOP2  L     R3,ACCTBLES(RE) .  POINT TO PARTITION TABLE          UL 57040028
000DE2 1845                        1076+         LR    R4,R5 .            CALCULATE NEW OVERHEAD TIME FOR   JB 57160028
000DE4 5E40 3020            00020  1077+         AL    R4,ACCTOVHT .      * THE PARTITION AND STORE THIS    UL 57200028
000DE8 5040 3020            00020  1078+         ST    R4,ACCTOVHT .      * VALUE BACK INTO THE TABLE       JB 57240028
000DEC 41EE 0004            00004  1079+         LA    RE,4(RE) .         INCREMENT INDEX TO ADDRESS TABLE  UL 57280028
000DF0 4600 0DDE            00DDE  1080+         BCT   R0,JALOOP2 .       REPEAT FOR EACH PARTITION         UL 57320028
000DF4 D200 09AA 09A9 009AA 009A9  1081+JAXRET   MVC   ACCTRAID,ACCTFAID .SET NEW ACCOUNTING ID       @DA00061 57400028
000DFA 07F7                        1082+         BR    R7 .               RETURN                            JB 57440028
                            00DFC  1083+JAXPP    EQU   *                                                     57480028
000DFC 4340 09AA            009AA  1084+         IC    R4,ACCTRAID .      POINT TO PARTITION TABLE          JB 57560028
000E00 8840 0002            00002  1085+         SRL   R4,L2 .            * BY USING THE PARTITION ID       JB 57600028
000E04 5834 09B4            009B4  1086+         L     R3,ACCTBLES-4(R4) .* DIVIDED BY 4 AS AN INDEX         JB 57640028
000E08 5E50 301C            0001C  1087+         AL    R5,ACCTCPUT .      UPDATE CPU TIME                   JB 57680028
000E0C 5050 301C            0001C  1088+         ST    R5,ACCTCPUT .      STORE NEW VALUE                   JB 57720028
000E10 D200 09AA 09A9 009AA 009A9  1089+         MVC   ACCTRAID,ACCTFAID .SET NEW ACCOUNTING ID            JB 57760028
000E16 07F7                        1090+         BR    R7 .               RETURN                            JB 57800028
                            00000  1091+         USING PUBADR,R3 .        RE-ESTABLISH STANDARD ADDRESSING     57840028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   1093+* SUPERVISOR - PIOCS - 5745-SC-SUP - REL. 34.1                @DY15975 00124134


000E18                       00684  1095+         ORG   CONFIGR           OVERLAY BACKGROUND COMREG    @DM11453 04480031
000684 FA                           1096+         DC    B'11111010'                 .      CONFIG                04520028

000685                       006D6  1098+         ORG   OPIND .           OVERLAY BACKGROUND COMREG              04800028
0006D6 10                           1099+         DC    B'00010000'            . OPTION INDICATOR BYTE   @DM00063 04840028

0006D7                       006DE  1101+         ORG   DSKCONF .         OVERLAY BACKGROUND COMREG    @DM11453 04920031
0006DE 0F                           1102+         DC    B'00001111'               .DISK CONFIG. BYTE  @D34DDAP 04970034


0006DF                       00E18  1104+         ORG   , .               RESET LOCATION COUNTER                 05040028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  1106+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 71320028
                                  1107+*                                                                           * 71360028
                                  1108+*        CANCEL EXIT.                                                       * 71400028
                                  1109+*                                                                           * 71440028
                                  1110+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 71480028

000E18                            1112+CNCLEXIT DS    0H                                                 @D348DAP 71560034
                         00000    1113+         USING COMREG,R7          GET COMREG ADDR                  @DA09556 71561634
000E18 5870 0014         00014    1114+         L     R7,CRADDR          ...                              @DA09556 71562434
000E1C 910C 70A4  000A4           1115+         TM    POWFLG1,POWWAIT+POWIJCL PARTITION WAITING FOR       @DY14187 71563234
000E20 47E0 0E30  00E30           1116+         BNO   NOPOWQ             WORK       ...NO                 @DA09556 71563834
000E24 9510 A001  00001           1117+         CLI   PIBCNCL,NORMEOJ    NORMAL EOJ IS NO PROBLEM         @DY14187 71564434
000E28 47D0 0E30  00E30           1118+         BNH   NOPOWQ             GO ON                            @DY14187 71565034
000E2C 9210 A001  00001           1119+         MVI   PIBCNCL,NORMEOJ    MAKE IT NORMAL EOJ               @DY14187 71565634
                         00008    1120+POWWAIT  EQU   X'08'                                                 @DA09556 71566234
                         00004    1121+POWIJCL  EQU   X'04'              JCL WORKING                       @DY14187 71566834
                         00E30    1122+NOPOWQ   EQU   *                                                    @DA09556 71568034
                                  1123+*                                                                   @DA08344 71580033
                                  1124+* VSAM MIGHT WANT TO DELAY CANCEL DUE TO OPERATOR INTERVENTION       @DA08344 71590033
                                  1125+*                                                                   @DA08344 71592033
000E30 9101 7086  00086           1126+         TM    OPTNBYTE,ANCHTBIT  IS ANCHORTABLE CREATED           @DA08344 71598033
000E34 4780 0E6C  00E6C           1127+         BZ    NOVSM              NO, DONT TEST MORE               @DA08344 71598433
000E38 9524 A001  00001           1128+         CLI   PIBCNCL,CANCX24    CNCL REASON OP. INTV?            @DA08344 71598833
000E3C 4780 0E48  00E48           1129+         BE    CBVSM              YES, DONT TEST FOR 64            @DY11884 71599034
000E40 9564 A001  00001           1130+         CLI   PIBCNCL,X'64'      VSAM OPER. DELAY CANCEL          @DY11884 71599234
000E44 4770 0E6C  00E6C           1131+         BNE   NOVSM              NO, STOP TESTING                 @DY11884 71599334
000E48 5870 7020         00020    1132+CBVSM    L     R7,PPEND           GET END OF PARTITION             @DA08344 71599434
000E4C 4177 0001         00001    1133+         LA    R7,D1(R7)          GET START OF ANCHOR TABLE        @DA08344 71600633
                         00000    1134+         USING ANCHTAB,R7                                          @DA08344 71601633
000E50 9214 087F  0087F           1135+         MVI   RID+D1,DISPID      ALLOW PGE FAULT                  @DA08344 71608033
000E54 9101 7008  00008           1136+         TM    ANCHTAB+D8,X'01'   VSAM CANCEL DELAY BIT ON?      @DA08344 71609033
000E58 9200 087F  0087F           1137+         MVI   RID+D1,SYSTEMID    RESTORE RID                      @DA08344 71610033
                         05E18    1138+         USING DISP,R6            MAKE DISPATCHER ADDRESSABLE      @DA08344 71611034
000E5C 47E0 0E68  00E68           1139+         BNO   NOVSM40            NO, CANCEL                       @DY14482 71611734
000E60 9640 A001  00001           1140+         OI    PIBCNCL,X'40'      INDICATE VSAM DELAYED CANCEL     @DY11884 71612734
000E64 47F0 6098  05EB0           1141+         B     VSMDELAY                                            @DY11884 71613734
000E68 94BF A001  00001           1142+NOVSM40  NI    PIBCNCL,X'BF'      CANCEL ALLOWED NOW               @DY14482 71614734
                         00E6C    1143+NOVSM    EQU   *                                                   @DY14482 71615734
                                  1144+         DROP  R6,R7                                               @DA08344 71623233
                         00000    1145+         USING CCWADR,R7          RESTORE STANDARD USING           @DA09556 71626134
000E6C 4400 B2D2         012D2    1146+         EX    R0,COMPCLC .       LTA ACTIVE FOR THIS TASK         @DA11884 71626434
000E70 4780 0E8C  00E8C           1147+         BE    CANCEL0 .          YES,LET LTA IN USE                   FR 71640028
000E74 4400 0FAC         00FAC    1148+         EX    R0,SVC2WAIT .      LTA OCUPIED BUT NOT ACTIVE           FR 71680028
000E78 4770 0ECE  00ECE           1149+         BNE   CANCEL1 .          NO,BRANCH AROUND NEXT INSTR.@DL281016 71720028
000E7C 58D0 088C         0088C    1150+         L     RD,PGMBASE         LOAD SGPGM BASE                  @D34RDFG 71730034
                         0E1E4    1151+         USING SGPGM,RD                                            @D34RDFG 71740034
000E80 4560 D0CA         0E2AE    1152+         BAL   R6,SETLT .         SET LTASAV ADDR.INTO PIB             FR 71760028
                                  1153+         DROP  RD                                                  @D34RDFG 71780034
000E84 5860 086C         0086C    1154+         L     R6,DISPAD .        RESTORE DISPATCHER ADDRESS       @DM05356 71800033
000E88 47F0 0ECE  00ECE           1155+         B     CANCEL1 .          BRANCH AROUND NEXT INSTR.  @DL281016 71840028
                         00E8C    1156+CANCEL0  EQU   * .                                                     FR 71880028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  1157+*                                                                  @DM03575 71881028
                                  1158+*        THE LTA CANCEL BIT WILL BE TURNED ON BY $$ABERZ1 WHEN     @DM03575 71882028
                                  1159+*        THE LTA I/O IS QUIESCED. FROM HERE ON IT MEANS THAT       @DM03575 71883028
                                  1160+*        THE CANCEL OCCURRED IN THE LTA                            @DM03575 71884028
                                  1161+*                                                                  @DM03575 71885028
000E8C 9180 A001      00001       1162+         TM    PIBCNCL,LTACNC     STILL LTA I/O PENDING          @DM03575 71886028
000E90 4710 0ECE      00ECE       1163+         BO    CANCEL1            NO, PROCEED WITH CANCEL        @DM03575 71887028
000E94 5880 A004            00004 1164+         L     R8,PIBSAVE          SET SAVE AREA POINTER         @DM03575 71887228
000E98 4870 0690            00690 1165+         LH    R7,YPUBTAB         GET ADDRESS OF PUBTABLE        @DM03575 71887428
000E9C 5070 802C            0002C 1166+         ST    R7,SVER00          STORE AS BEGIN FOR QUIESCE     @DM03575 71887628
                                  1167+*        LTA REGISTER ZERO WILL BEDESTROYED TO CONTAIN THE         @DM03575 71887828
                                  1168+*        ADDRESS OF THE FIRST PUB TO BE QUIESCED. THIS ADDRESS     @DM03575 71887928
                                  1169+*        WILL BE UPDATED EACH TIME BY $$ABERZ1.                    @DM03575 71888128
                                  1170+*        SINCE THE LTA IS CANCELLED REGISTER ZERO CAN BE USED.     @DM03575 71888328
                                  1171+*                                                                  @DM03575 71888528
000EA0 4860 06AA            006AA 1172+         LH    R6,YPIBTAB         GET ATTENTION PIB              @DM03575 71888728
                                  1173+         DROP  RA                                                @DM03575 71889028
                            00000 1174+         USING PIBADR,R6                                         @DM03575 71890028
000EA4 9620 6008      00008       1175+         OI    ARFLG,DELCAN       INDICATE LTA CANCEL DELAY      @DM03575 71891028
000EA8 9580 6000      00000       1176+         CLI   PIBFLG,NOTACT      ATTENTION ACTIVE               @DM03575 71892028
000EAC 4780 0EB8      00EB8       1177+         BE    CANCEL2            NO, READY IT                   @DM03575 71893028
000EB0 9581 6000      00000       1178+         CLI   PIBFLG,LTABND       ATTENTION LTA BOUND            @DM03575 71894028
000EB4 4770 0EBC      00EBC       1179+         BNE   CANCEL2A           NO, LEAVE ANY OTHER STATUS     @DM03575 71895028
000EB8 9283 6000      00000       1180+CANCEL2  MVI   PIBFLG,READY       MAKE ATTENTION READY           @DM03575 71896028
                                  1181+         DROP  R6                                                @DM03575 71897028
                            00000 1182+         USING PIBADR,RA                                         @DM03575 71898028
000EBC 5860 086C            0086C 1183+CANCEL2A L     R6,DISPAD .        RESTORE DISPATCHER ADDRESS     @DM05356 71899033
000EC0 9500 067F      0067F       1184+         CLI   PIK+1,ZERO         ATTENTION TO BE CANCELLED      @DM04394 71899228
000EC4 4780 B334      01334       1185+         BE    ATNRTN             YES,FETCH $$ABERZ1             @DM04394 71899428
000EC8 9281 A000      00000       1186+         MVI   PIBFLG,LTABND      SET TASK TO LTABND             @DM03575 71900028
                                  1187+*        THE CANCELLING TASK WILL NOW BE WAITING FOR ITSELF        @DM03575 71901028
                                  1188+*        UNTIL $$ABERZ1 SETS IT READY AGAIN AFTER I/O QUIESCE      @DM03575 71902028
000ECC 07F6                       1189+         BR    R6                 EXIT TO TASKSELECTION          @DM03575 71903028
                            00ECE 1190+CANCEL1  EQU   *                                                 @DL281016 71986728
000ECE 9140 A004      00004       1191+         TM    PIBDATFL,SEIZE .   SYSTEM SEIZED?                       FR 72040028
000ED2 4780 0EE2      00EE2       1192+         BZ    CNLRLS .           NO,SKIP RELEASE.                      72080028
000ED6 9740 A004      00004       1193+         XI    PIBDATFL,SEIZE .   SWITCH THE SEIZE FLAG                FR 72120028
000EDA 9783 0959      00959       1194+         XI    TRTSEIZE,READY .   FLIP THE SEIZE BYTE IN TRTMSK.        FR 72160028
                            05E18 1195+         USING DISP,R6 .          ESTABL.DISPATCHER ADDRESS      @DM05356 72180033
000EDE 9780 608D      05EA5       1196+         XI    SEIZEXIT+D1,16*Z . DEACTIVATE SPECIAL EXIT              FR 72200028
                                  1197+         DROP  R6 .                                              @DM05356 72220033
000EE2 9204 087F      0087F       1198+CNLRLS   MVI   RID+D1,REENTRID .  IDENTIFY REENTRABLE ROUTINE          EM 72280028
000EE6 58D0 0894            00894 1199+         L     RD,APBASE          LOAD SGAP BASE                 @D34RDFG 72330034
000EEA 5850 0014            00014 1200+         L     R5,CRADDR          GET COMREG ADDR                @DY15697 72333034
                            00000 1201+         USING COMREG,R5                                         @DY15697 72336034
                            0E722 1202+         USING SGAP,RD                                           @D34RDFG 72340034
000EEE D701 5058 5058 00058 00058 1203+         XC    LIOCSCOM(L2),LIOCSCOM CLEAR LIOCSBYTES IN COMR    @DY15697 72350034
                                  1204+         DROP  R5                                                @DY15697 72355034
000EF4 4590 D098            0E7BA 1205+         BAL   R9,CNCEL .         GOTO AP/AB CANCEL ROUT.        @DM01248 72360028
                                  1206+         DROP  RD                                                @D34RDFG 72365034
                            00EF8 1207+CANCEL   EQU   *                                                 @DM00577 72440028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            00000  1208+         USING COMREG,R5                                          @DA08695 72450034
000EF8 5850 0014            00014  1209+         L     R5,CRADDR           GET COMREG ADDR                @DA08695 72455034
000EFC 9120 50A4      000A4        1210+         TM    POWFLG1,POWPART     POWER CANCEL                   @DA08695 72460034
000F00 4780 0F36      00F36        1211+         BZ    CANCEL3             NO, BYPASS                     @DA08695 72465034
000F04 9583 0967      00967        1212+         CLI   TRTLTK,READY        IS LTA ACTIVE                  @DA08695 72470034
000F08 4780 0F36      00F36        1213+         BE    CANCEL3             NO, BYPASS                     @DA08695 72475034
000F0C 9283 097D      0097D        1214+         MVI   TRTPWSRV,READY      OPEN THE GATE                  @DY15975 72477034
                                   1215+         DROP  RA                                                 @DA08695 72480034
                            00000  1216+         USING PIBADR,R8                                          @DA08695 72485034
000F10 4880 06CC            006CC  1217+         LH    R8,YPIB2TAB         LOAD PIB2ADDR                  @DA08695 72490034
000F14 4A80 0750            00750  1218+         AH    R8,LIK              GET LTA PIB2ADDR               @DA08695 72500034
000F18 1755                        1219+         XR    R5,R5               GET LTA COMREG                 @DA08695 72525034
000F1A BF53 8000            00000  1220+         ICM   R5,M3,PIBCOMRA                                     @DA08695 72530034
000F1E 9140 50A4      000A4        1221+         TM    POWFLG1,POWSUP      IS IT POWER SUPPORTED          @DA08695 72535034
000F22 4780 0F36      00F36        1222+         BZ    CANCEL3             NO, BYPASS                     @DA08695 72540034
000F26 4A80 0BDE            00BDE  1223+         AH    R8,PIBDIFF          GET PIB1 ADDR                  @DA08695 72545034
000F2A 960C 800F      0000F        1224+         OI    PIBFLG2,FETCHEOJ+CNCLD                             @DA08695 72555034
000F2E 9601 8000      00000        1225+         OI    PIBFLG,IOCMPL       SET TASK DISPATCHABLE          @DA08695 72580034
000F32 9223 8001      00001        1226+         MVI   PIBCNCL,CANCX23     CANCEL BY REQ                  @DA08695 72585034
                                   1227+         DROP  R5                                                 @DA10264 72590034
                            00000  1228+         USING SVEARA,R8                                          @DA10264 72595034
                            00000  1229+         USING PIBADR,RA                                          @DA08695 72600034
                            00F36  1230+CANCEL3   EQU   *                                                  @DA08695 72610034
000F36 4110 B5A2            015A2  1231+         LA    R1,ENDJOB .         GET PHASE NAME FOR CANCEL      @DM00577 72640028
000F3A 58D0 08AC            008AC  1232+         L     RD,APAGEOPT .       SET BASE REGISTER              @DL2982F 72642229
000F3E 455D 041A            0041A  1233+         BAL   R5,SCANPGT-PAGEOPT(RD) SCAN PAGETAB                @DL2982F 72642529

000F42 58E0 0778            00778  1235+         L     RE,APMGR .          SET BASE REG FOR PAGE MANAGER      EM 72760028
                            082E6  1236+         USING PMGRADR,RE                                         EM 72800028
000F46 4530 E4EA            087D0  1237+         BAL   R3,RESPHO .         DISALLOW PHO FOR THIS TASK         EM 72840028
000F4A 58D0 0894            00894  1238+         L     RD,APBASE           LOAD  SGAP BASE                @D34RDFG 72893034
                            0E722  1239+         USING SGAP,RD                                            @D34RDFG 72896034
000F4E 4530 D826            0EF48  1240+         BAL   R3,RESTT            GO RESET TASK TIMER            @D33PADO 72900033
                                   1241+         DROP  RD                                                 @D34RDFG 72905034
000F52 4BA0 0BDE            00BDE  1242+         SH    RA,PIBDIFF          POINTER TO PIB EXTENSION       @D33PAGA 72912033
000F56 9104 A00F      0000F        1243+         TM    PIBFLG3,PIBSVCK     SYNCH MODE                     @D33PAGA 72913033
000F5A 4780 0F6A      00F6A        1244+         BZ    NOSYN               BRANCH IF NOT SYNCH MODE       @D33PAGA 72914033
000F5E 58D0 0894            00894  1245+         L     RD,APBASE           LOAD SGAP BASE                 @D34RDFG 72914334
                            0E722  1246+         USING SGAP,RD                                            @D34RDFG 72914634
000F62 4550 D78C            0EEAE  1247+         BAL   R5,RSTSAVE          RESET SYNCH MODE AND SAV ARA   @D33PAGA 72915033
                                   1248+         DROP  RD                                                 @D34RDFG 72915534
000F66 47F0 0F6E      00F6E        1249+         B     SYN1                ON RETURN RA POINTS TO PIB     @D33PAGA 72916033
000F6A 4AA0 0BDE            00BDE  1250+NOSYN     AH    RA,PIBDIFF          POINTER TO PIB                 @D33PAGA 72917033
                            00F6E  1251+SYN1      EQU   *                                                  @D33PAGA 72918033



000F6E 4570 0DB2            00DB2  1253+         BAL   R7,JAXIT .          GO TO SET COUNTERS FOR JOB ACCT.   JB 73000028
000F72 4570 B310            01310  1254+         BAL   R7,PURWAITL .       PURGE TASK'S WAIT LIST ENTRY      BSW 73120028
000F76 BFFF 0754            00754  1255+         ICM   RF,M15,APOWTB       ADDRESS POWER TABLE            @DA08695 73682034
000F7A 4780 0FA4      00FA4        1256+         BZ    NPCNCL              BRANCH IF NO POWER             @DA08695 73683034
                            00000  1257+         USING PADS,RF                                            @DA08695 73684034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000F7E 58F0 F16C            0016C  1258+         L     RF,CAPB             ADDRESS POWER PIB            @DA08695 73685034
                            00000  1259+         USING PIBADR,RF                                          @DA08695 73686034
000F82 9108 F00F      0000F        1260+         TM    PIBFLG2,FETCHEOJ    IS POWER CANCELLING          @DA08695 73687034
000F86 47E0 0FA4      00FA4        1261+         BNO   NPCNCL              NO, BYPASS                   @DA08695 73688034
000F8A 9510 F001      00001        1262+         CLI   PIBCNCL,NORMEOJ     NORM EOJ                     @DA08695 73689034
000F8E 4780 0FA4      00FA4        1263+         BE    NPCNCL              YES, BYPASS                  @DA08695 73690034
                            00000  1264+         USING COMREG,R5                                          @DA08695 73691034
000F92 5850 0014            00014  1265+         L     R5,CRADDR           LOAD COMREG ADDR             @DA08695 73692034
000F96 9140 50A4      000A4        1266+         TM    POWFLG1,POWSUP      POWER SUPPORTED              @DA08695 73693034
000F9A 4780 0FA4      00FA4        1267+         BZ    NPCNCL              NO,BYPASS                    @DA08695 73694034
000F9E 45F0 0AD8            00AD8  1268+         BAL   RF,ERRSETA          FREE LTA                     @DA08695 73696034
000FA2 07F6                        1269+         BR    R6                  EXIT                         @DA08695 73703034
                            00FA4  1270+NPCNCL   EQU   *                                                 @DA08695 73704034
                                   1271+         DROP  R5,RF                                            @DA08695 73705034
                            00040  1272+POWSUP   EQU   X'40'                                             @DA08695 73707034
000FA4 58D0 088C            0088C  1273+         L     RD,PGMBASE          GET BASE FOR FETCH SVC'C     @D34RDFG 73740034
                            0E1E4  1274+         USING SGPGM,RD                                         @D34RDFG 73760034
000FA8 47F0 D028      0E20C        1275+         B     SVC02               GO FETCH B-TRANNSIENT        @D34RDFG 73780034
                                   1276+         DROP RD                                                @D34RDFG 73800034


000FAC D500 0753 0751 00753 00751  1278+SVC2WAIT CLC   TIK+1(L1),LIK+1   .REQUEST FROM PP AFTER SVC8?        EM 81600028
000FB2 4780 09EA      009EA        1279+         BE    ERR21 .             YES,ILLEGAL SVC                    81640028
000FB6 4130 0016            00016  1280+         LA    R3,22               POWER RE-SVC VALUE MINUS 2   @DY11951 81646034
000FBA BFFF 0754            00754  1281+         ICM   RF,M15,APOWTB       ADDRESS POWER TABLE          @DY11951 81649034
000FBE 4780 0FD2      00FD2        1282+         BZ    NOPWRSVC            BRANCH IF POWER NOT ACTIVE   @DY11951 81652034
                            00000  1283+         USING PADS,RF             ADDRESSABILITY POWER TABLE   @DY11951 81655034
000FC2 59A0 F16C            0016C  1284+         C     RA,CAPB             POWER PARTITION ISSUED SVC 2 @DY11951 81658034
000FC6 4770 0FD2      00FD2        1285+         BNE   NOPWRSVC            NO                           @DY14043 81661034
000FCA 9108 A00F      0000F        1286+         TM    PIBFLG2,FETCHEOJ    HAS SVC2 BEEN ISSUED         @DY14043 81661734
000FCE 4780 B018      01018        1287+         BZ    GETUTAD1            YES, POWER SPECIAL RE-SVC    @DY14043 81662434
                                   1288+         DROP  RF                                               @DY11951 81664034
                            00FD2  1289+NOPWRSVC EQU   *                                                 @DY11951 81667034
000FD2 9281 A000      00000        1290+         MVI   PIBFLG,LTABND .     MAKE TASK LTA-BOUND                81680028
000FD6 1B33                        1291+RESVCNOX SR    R3,R3 .             SIMPLE RESVC                 @DM01378 81685028
000FD8 47F0 B018      01018        1292+         B     GETUTAD1 .          SETUP USER TO REISSUE SVC    @DM01378 81690028
000FDC 4140 0083            00083  1293+RESVC    LA    R4,READY .          SET UP TO LEFT TASK READY    @DM01378 81720028
000FE0 1B33                        1294+RESVCX   SR    R3,R3 .             IDENTIFY RESVC VERSUS SVC07  @DM01378 81880028
                            00000  1295+         USING SYSBLKS,R5 .        POINTER TO SYSTEM TASK BLOCK               81920028
000FE2 9200 09AA      009AA        1296+         MVI   ACCTRAID,JAOHID .   CHANGE ACCOUNTING ID TO OVERHEAD   JB 82000028
000FE6 9500 073D      0073D        1297+UPADD    CLI   SELECT,ZERO .       ANY SYSTEM TASK ACTIVE             EM 82080028
000FEA 4780 B014      01014        1298+         BE    GETUTADD .          NO,GET USER TASK SAVEAREA          EM 82120028
000FEE 4570 B06C            0106C  1299+         BAL   R7,DESELECT .      DEACTIVATE SYSTEM TASK       @DM01378 82125028
000FF2 5880 5004            00004  1300+         L     R8,SYSAVAR .        POINT TO SYSTEM SAVEAREA           EM 82240028
000FF6 5890 800C            0000C  1301+         L     R9,SVEPSW2          PICK UP NEXT INSTR. ADDR.    @DA09403 82250034
000FFA 4B90 0088            00088  1302+         SH    R9,SVCINF           MINUS LENGTH CODE            @DA09403 82260034
000FFE 47F0 B04A      0104A        1303+         B     NOEXSVC             R9 POINTING OK NOW           @DA09403 82270034
001002 4840 087E            0087E  1304+GATEWAIT LH    R4,RID .            USE ROUT.ID TO SETUP PIBFLG  @DM01378 82285028
001006 47F0 0FE0      00FE0        1305+         B     RESVCX .            GOTO RESVC USER              @DM01378 82290028
00100A 4560 0FD6            00FD6  1306+PFWAIT   BAL   R6,RESVCNOX .      RESVC THEN RETURN HERE       @DM01378 82295028
00100E 5860 086C            0086C  1307+         L     R6,DISPAD .         RESTORE DISPATCHER ADDRESS   @DM05356 82300033
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001012 07F7                      1308+          BR    R7 .                RETURN TO CALLER             @DM01378 82305028
001014 4240 A000           00000 1309+GETUTADD STC   R4,PIBFLG .         SET TASK TO BOUND            @DM01378 82310028
001018 5880 A004           00004 1310+GETUTAD1 L     R8,PIBSAVE .        POINT TO USER TASK SAVE AREA @DM01378 82480028
00101C 1288                      1311+          LTR   R8,R8 .             INITIAL SELECTION OF ATTENTION        82520028
00101E 0786                      1312+          BCR   Z,R6 .              YES,EXIT                              82560028
001020 9108 A00F      0000F      1313+          TM    PIBFLG2,FETCHEOJ .  HAS SVC2 BEEN ISSUED            5-0 82600028
001024 4780 B02E      0102E      1314+          BZ    GETADD              YES, RESVC                   @DY11884 82610034
001028 9564 A001      00001      1315+          CLI   PIBCNCL,X'64'       VSAM DELAY OPERATOR CANCEL   @DY11884 82620034
00102C 0776                      1316+          BNER  R6                  NO, DO NOT RESVC             @DY11884 82630034
00102E 5890 800C           0000C 1317+GETADD   L     R9,SVEPSW2 .        PICK UP NEXT INSTR.ADDRESS            82680028
001032 0690                      1318+          BCTR  R9,R0 .             BUMP BACK TWO BYTES          @D30EUJH 82720031
001034 0690                      1319+          BCTR  R9,R0 .             FOR RESVC                    @D30EUJH 82760031
001036 4BA0 0BDE           00BDE 1320+          SH    RA,PIBDIFF          POINT TO PIB2TAB             @DA09403 82768034
00103A 9102 A005      00005      1321+          TM    INTINFO+D1,ILC2     IS IT 'EXECUTE'              @DA09403 82776034
00103E 41AA 0100           00100 1322+          LA    RA,PIBTAB-PIB2TAB(RA) RESTORE PIB POINTER        @DA09403 82784034
001042 4710 B04A      0104A      1323+          BO    NOEXSVC             NO, BRANCH                   @DA09403 82792034
001046 0690                      1324+          BCTR  R9,R0 .             YES, BUMP BACK TWO EXTRA BYTES    367 82880028
001048 0690                      1325+          BCTR  R9,R0 .             FOR EXECUTE-SVC                   367 82920028
00104A 1B93                      1326+NOEXSVC   SR    R9,R3 .             AND 10 BYTES FOR SVC07            367 82960028
00104C 5090 800C           0000C 1327+          ST    R9,SVEPSW2 .        SET UP PSW ADDRESS                    83000028
001050 07F6                      1328+          BR    R6 .                RETURN                       @DM01378 83040028
                                 1329+*                                                                 @D348DEM 00043034
                                 1330+*         SUPERVISOR - SGSVC - 5745-SC-SUP - REL. 34.0           @D348DEM 00043434
                                 1331+*                                                                 @D348DEM 00043634
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   1334+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 18800028
                                   1335+*                                                                     * 18820028
                                   1336+*SVC 26: VALIDATE ADDRESS LIMITS.                                     * 18840028
                                   1337+*                                                                     * 18860028
                                   1338+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 18880028

001052 91F0 0021      00021        1340+SVC26    TM    SVOLDP+1,KEY0 .    IS REQUESTOR KEY ZERO?           AC 18940028
001056 4770 09EA      009EA        1341+         BNZ   ERR21 ,            NO ILLEGAL SVC                   AC 18960028
00105A 4580 B2DA            012DA  1342+         BAL   R8,VALIDR2 .       VERIFY ADDRESS LIMITS            AC 18980028
00105E 07F6                        1343+         BR    R6 .               EXIT                                19000028
                            01060  1344+SVC33    EQU   * .                                         @DM01378 20100028
                                   1345+*              SVC33 IS A DUMMY SVC WHEN ISSUED BY A USER TASK @DM01378 20100828
                                   1346+*              SVC33 ISSUED BY A SYSTEM TASK DEACTIVATES TASK  @DM01378 20101628
                                   1347+*              WHICH IS ACTIVE VIA SELECT BYTE. THIS ALLOWES   @DM01378 20102428
                                   1348+*              DISPATCHER TO GIVE CONTROL TO ANY HIGHER        @DM01378 20103228
                                   1349+*              PRIORITY SYSTEM TASK                            @DM01378 20104028
001060 9500 073D      0073D        1350+         CLI   SELECT,ZERO .      SVC33 ISSUED BY SYST.TASK    @DM01378 20110028
001064 0786                        1351+         BCR   E,R6 .             NO,GOTO TASK SELECTION       @DM01378 20110828
001066 1876                        1352+         LR    R7,R6 .            SETUP EXIT ADDRESS           @DM01378 20111628
001068 4140 0083            00083  1353+READYSYS LA    R4,READY .         SETUP DESELECT ROUT.         @DM01378 20112428
                                   1354+*              FOLLOWING ROUTINE CLEARS SELECT BITE AND SETS   @DM01378 20112528
                                   1355+*             SYSTEM TASKS PIBFLAG TO A VALUE CONTAINED IN R4  @DM01378 20112628
00106C 5850 0794            00794  1356+DESELECT L     R5,ASYSBLKX .      ADDRESS OF SYS.TASK BLOCK    @DM01378 20113228
                            00000  1357+         USING SYSBLKS,R5                                      @DM01378 20114028
001070 4880 5000            00000  1358+         LH    R8,SYSPIBFL .      ADDRESS OF SYS.TASK PIBFLAG  @DM01378 20114828
                            00000  1359+         USING SPIBADR,R8                                      @DM01378 20115628
001074 4240 8000            00000  1360+         STC   R4,SPIBFLG .       SET TASK TO READY OR BOUND   @DM01378 20116428
001078 9200 073D      0073D        1361+         MVI SELECT,ZERO .        DEACTIVATE TASK IN SELECT    @DM01378 20117228
00107C 07F7                        1362+         BR    R7 .               RETURN TO CALLER OR TO EXIT  @DM01378 20118028
                            00000  1363+         USING SVEARA,R8 .        RESTORE STANDARD USING       @DM01378 20118828
                                   1364+         DROP  R5                                              @DM01378 20119628

                            0107E  1366+SVC46    EQU   * .                                                  RJI 26600028
                                   1367+* .                                                                 RJI 26620028
                                   1368+*        SVC46 ISSUED BY OLTEP TRANSFERS CONTROL TO OLTEP IN        RJI 26640028
                                   1369+*        SUPERVISOR STATE. CONTROL IS TRANSFERRED TO THE ADDRESS    RJI 26660028
                                   1370+*        THAT OLTEP HAS PROVIDED IN GENERAL REGISTER 1 VIA A BALR-  RJI 26680028
                                   1371+*        INSTRUCTION. ON RETURN FROM OLTEP EXIT TO TASK SELECTION   RJI 26700028
                                   1372+*        IS TAKEN.                                                  RJI 26720028
                                   1373+* .                                                                 RJI 26740028
00107E 9180 0764      00764        1374+         TM    IJBOLTEP,OLTAC .   IS OLTEP IN BG                    RJI 26840028
001082 4780 09EA      009EA        1375+         BZ    ERR21 .            NO, ILLEGAL SVC                   RJI 26860028
001086 0571                        1376+         BALR  R7,R1 .            YES, GO TO OLTEP IN SUPERV. STATE RJI 26880028
001088 07F6                        1377+         BR    R6 .               EXIT TO TASK SELECT               RJI 26900028

                            0108A  1379+CRTATTNT EQU   * .                ENTRY AFTER ATTENTION INTER        AS 26980028
                                   1380+         DROP  RB       .                                            AS 27000034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            01898  1381+         USING CRTTAB,R8 .        POINTER TO CRTTAB                  AS 27020028
00108A 92D2 8007      0189F        1382+         MVI   SVCCHAR,C'K' .     DOCK NEXT PHASE TO FETCH           AS 27040028
00108E 9620 800C      018A4        1383+         OI    CRTFLG1,CRTFETCH . INDICATE FETCH IN PROCESS    @DF02772 27050028
                            00000  1384+         USING SYSS00,R0,RB       RESTORE BASIS                      AS 27060034
                            00000  1385+         USING SVEARA,R8 .        POINTER TO SAVE AREA               AS 27080028
001092 0A30                        1386+         SVC   48 .               FETCH PHASE K                      AS 27100028
                            01094  1387+SVC48    EQU   *                  THIS PART WILL INITIATE THE CRT    AP 27120028
001094 91F0 0021      00021        1388+         TM    SVOLDP+1,KEY0      HAS CALLER KEY 0                @D34EDAP 27240034
001098 4770 09EA      009EA        1389+         BNZ   ERR21              NO, ERROR                       @D34EDAP 27250034
00109C 4110 B898            01898  1390+         LA    R1,CRTNAME         SET UP POINTER TO PHASE NAME    @D34EDAP 27260034
0010A0 5800 B8A4            018A4  1391+         L     R0,ACRTTRNS        GET LOAD ADDR                   @D34EDAP 27270034
0010A4 5880 0708            00708  1392+         L     R8,AFETCH          ADDRESS OF FETCH ROUTINE        @D34EDAP 27280034
                            060E8  1393+         USING FETCH,R8           MAKE FETCH ADDRESSABLE          @D34EDAP 27290034
0010A8 4590 8000            060E8  1394+         BAL   R9,CRTFCH2         LOAD PHASE                      @D34EDAP 27460034
0010AC 9283 B5D7      015D7        1395+         MVI   CRTFLG,READY       MAKE CRT NOW DISPATCHABLE       @D34EDAP 27540034
0010B0 9180 072C      0072C        1396+         TM    IJBCONSP,TRABIT    IS CRT INITIALIZED              @D34EDAP 27550034
0010B4 0786                        1397+         BZR   R6                 NO, THEN DO INITIALIZE CRT      @D34EDAP 27560034
0010B6 1890                        1398+         LR    R9,R0              ADDRESS OF CRT AREA             @D34EDAP 27570034
0010B8 4199 000A            0000A  1399+         LA    R9,CRTDSP1(R9)     GET PROPER ENTRY ADDRESS        @D34EDAP 27580034
0010BC 58E0 B8A0            018A0  1400+         L     RE,ACRTSAV         CRT SAVE AREA                   @D34EDAP 27590034
                            121F0  1401+         USING CRTSAV,RE          MAKE IT ADDRESSABLE             @D34EDAP 27600034
0010C0 5090 E09C            1228C  1402+         ST    R9,CRTPSW2         UPDATE PSW IN SAVE AREA         @D34EDAP 27610034
                                   1403+         DROP  R8,RE                                              @D34EDAP 27620034
0010C4 07F6                        1404+         BR    R6                 EXIT TO TASK SELECTION          @D34EDAP 27740034
                            010C6  1405+SVC56    EQU   *                                                    SGS00170
0010C6 5821 0000            00000  1406+         L     R2,D0(R1)          LOAD DEVICE ADDRESS                SGS00180
0010CA 83230024                    1407+         DC    X'83230024'        ISSUE DIAG TO TEST DEVICE          SGS00190
0010CE 4720 B0DA            010DA  1408+         BC    M2,DEVOK           DEVICE SPOOLED - LOOKS OK          SGS00200
0010D2 41F0 0004            00004  1409+         LA    RF,D4              DEVICE INVALID OR DEDICATED        SGS00210
0010D6 47F0 B104      01104        1410+         B     SVC56RC            RETURN WITH ERROR RET CODE         SGS00220
0010DA BD38 B124            01124  1411+DEVOK    CLM   R3,B'1000',UROUT    UNIT RECORD OUTPUT DEVICE?         SGS00230
0010DE 4780 B0EA      010EA        1412+         BE    DEVGOOD              YES - SHOULD BE CLOSED        SGS00240
0010E2 41F0 0004            00004  1413+         LA    RF,D4              NOT UNIT RECORD OUTPUT             SGS00250
0010E6 47F0 B104      01104        1414+         B     SVC56RC            RETURN WITH ERROR RET CODE         SGS00260
0010EA D202 B113 1005 01113 00005  1415+DEVGOOD  MVC   CPCMD+3(L3),D5(R1) MOVE EBCDIC DEVICE ADDR TO         SGS00270
                                   1416+*                                 COMMAND                            SGS00280
0010F0 D207 B11C 1008 0111C 00008  1417+         MVC   CPCMD+12(L8),D8(R1) MOVE JOBNAME TO COMMAND          SGS00290
0010F6 4110 B110            01110  1418+         LA    R1,CPCMD           POINT TO COMMAND                   SGS00300
0010FA 4120 0014            00014  1419+         LA    R2,L'CPCMD         GET COMMAND LENGTH                 SGS00310
0010FE 83120008                    1420+         DC    X'83120008'        ISSUE CLOSE VIA DIAGNOSE           SGS00320
001102 1BFF                        1421+         SR    RF,RF              SET RETURN CODE TO OK              SGS00330
001104 5880 A004            00004  1422+SVC56RC  L     R8,PIBSAVE         GET SAVE AREA ADDRESS              SGS00340
                            00000  1423+         USING SVEARA,R8                                           SGS00350
001108 50F0 8028            00028  1424+         ST    RF,SVER0F          STORE RETURN CODE IN REG 15        SGS00360
                                   1425+         DROP  R8                                                  SGS00370
                            05E18  1426+         USING DISP,R6                                             SGS00380
00110C 47F0 607A      05E92        1427+         B     SAMETASK           RETURN TO USER VIA SAME TASK       SGS00390
001110 C3D340C3E4E440D5            1428+CPCMD    DC    C'CL CUU NAME JJJJJJJJ'                               SGS00400
001124 10                          1429+UROUT    DC    X'10'              VM FLAG FOR UNIT RECORD            SGS00410
                                   1430+*                                 OUTPUT DEVICE TYPE                 SGS00420
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001126                            1432+SVC59    DS    0H                FOR JOB CONTROL              @D34NE35 29880034
001126 58E0 0778            00778 1433+         L     RE,APMGR .        SET BASE REGISTER                  EM 29900028
00112A 41FB E000            00000 1434+         LA    RF,0(RB,RE) .     FOR FIRST PART OF PAGE MANAGER     EM 29920028
                            082E6 1435+         USING PMGRADR,RE,RF                                    @D34RDFG 29930034
00112E 47F0 EFA6      0928C       1436+         B     INVPAGE .         BRANCH TO SVC59 RTN                EM 29940028
                                  1437+         DROP  RE,RF                                              EM 29960028
001132                      01126 1438+         ORG   SVC59 .           THE PRECEDING INSTR.ARE RESTORED   EM 29980028
                                  1439+*                                AT IPL COMPLETION                  EM 30000028
001126 58F0 08EC            008EC 1440+         L     RF,AFCB .         SET ADDR.TO INITIALIZATION CODE    EM 30020028
                            0112C 1441+SVC59SW  EQU   *+2 .             SWITCH FOR SECOND PART OF INIT     EM 30040028
00112A 47FF 0030      00030       1442+         B     INITDAT-FCBQ(RF) . BRANCH TO DAT INITIAL.ROUTINE     EM 30060028
00112E                      01132 1443+         ORG   , .                                              IB3.7 30080028
                            01132 1444+SVC66    EQU   * .               RUNMODE RETURNS IN REG.1 ZERO IF   EM 39720028
001132 9180 A004      00004       1445+         TM    PIBDATFL,TRAM .   USER TASK RUNS IN VIRTUAL MODE     EM 39740028
001136 0716                       1446+         BCR   O,R6 .            YES,VIRTUAL MODE,RETURN            EM 39760028
001138 41F0 0004            00004 1447+         LA    RF,D4 .           IT RETURNS 4 FOR REAL MODE         EM 39780028
00113C 4110 0030            00030 1448+         LA    R1,SVER01-SVEARA . PASS RET.CODE IN REGISTER 1       EM 39800028
                            01140 1449+RETCODE  EQU   *                 THIS RTN STORES RET.CODE PASSED    EM 39820028
                                  1450+*                                IN PERTINENT REG.SAVE LOC.         EM 39840028
001140 5880 A004            00004 1451+         L     R8,PIBSAVE .      GET USER SAVEAREA                  EM 39860028
001144 9500 073D      0073D       1452+         CLI   SELECT,ZERO .     WAS REQUEST FROM SYSTEM TASK       EM 39880028
001148 4780 B154      01154       1453+         BE    STRETCD .         NO,USERTASK                        EM 39900028
00114C 5880 0794            00794 1454+         L     R8,ASYSBLKX .     SAVE AREA PTR.OF CUR.ACT.SYST.TASK EM 39920028
                            00000 1455+         USING SYSBLKS,R8 .                                       EM 39940028
001150 5880 8004            00004 1456+         L     R8,SYSAVAR .      LOAD SYSTEM SAVEAREA ADDR.         EM 39960028
                            00000 1457+         USING SVEARA,R8 .       RESTORE STANDARD ADDR.           EM 39980028
                            01154 1458+STRETCD  EQU   *                                                  EM 40000028
001154 50F1 8000            00000 1459+         ST    RF,D0(R1,R8) .    STORE RET.CODE INTO RETURNREG.     EM 40020028
001158 07F6                       1460+         BR    R6 .              EXIT                               EM 40040028



00115A B101 0000            00000 1463+SVC69    LRA   R0,D0(R1) .       IS PAGE IN MEMORY?                 PF 40320028
00115E 0776                       1464+         BCR   NZ,R6 .           NO, RETURN                         PF 40340028
001160 5900 07E4            007E4 1465+         C     R0,EOCADDR        VALID REAL ADDRESS?          @DM11453 40360031
001164 0726                       1466+         BCR   H,R6 .            NO, RETURN                         PF 40380028
001166 18F0                       1467+         LR    RF,R0 .           SAVE REAL ADDRESS                  PF 40400028
001168 4111 0000            00000 1468+         LA    R1,D0(R1)         CLEAR HIGH ORDER BYTE        @DY11953 40410034
00116C 1901                       1469+         CR    R0,R1 .           VIRTUAL = REAL?                    PF 40420028
00116E 4780 B182      01182       1470+         BE    REALAD1 .         YES                                PF 40440028
001172 8800 000B            0000B 1471+         SRL   R0,D11 .          CALC. REAL PAGE NUMBER             PF 40460028
                                  1472+*                                = OFFSET IN PFTX                   PF 40480028
001176 58E0 07D0            007D0 1473+         L     RE,APFTX .        GET ADDR. OF PFTX                  PF 40500028
00117A 1AE0                       1474+         AR    RE,R0 .           GET CORRECT ENTRY IN PFTX          PF 40520028
00117C 9500 E000      00000       1475+         CLI   D0(RE),ZERO .     PAGE PFIXED?                       PF 40540028
001180 0786                       1476+         BCR   E,R6 .            NO, RETURN                         PF 40560028
001182 4110 002C            0002C 1477+REALAD1  LA    R1,SVER00-SVEARA . INDICATE PARAMETER REG.           PF 40580028
001186 47F0 B140      01140       1478+         B     RETCODE .         PASS REAL ADDR. TO CALLER          PF 40600028

00118A 1891                       1480+SVC70    LR    R9,R1 .           LOAD PAR.PASSED TO WORKREGISTER    EM 40640028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0118C  1481+VIRTAD   EQU   *                                                    IB3.5 40660028
00118C BD97 07E5           007E5  1482+         CLM   R9,M7,EOCADDR+D1  VALID REAL ADDRESS?          @DM11453 40680031
001190 4720 B1D8           011D8  1483+         BC    H,VIRTAD2          NO, RETURN                       IB3.5 40700028
001194 4199 0000           00000  1484+         LA    R9,D0(R9)          ZERO HIGH ORDER BYTE             IB3.5 40720028
001198 1889                       1485+         LR    R8,R9                                                 PF 40740028
00119A 18E9                       1486+         LR    RE,R9 .            SAVE REAL ADDR.                    PF 40760028
00119C 8C80 000B           0000B  1487+         SRDL  R8,D11 .           CALC. REAL PAGE NUMBER             PF 40780028
0011A0 8980 0003           00003  1488+         SLL   R8,D3 ,            GET OFFSET IN PFT                  PF 40800028
0011A4 58F0 07CC           007CC  1489+         L     RF,APFT .          GET ADDR. OF PFT                 IB3.5 40820028
0011A8 1AF8                       1490+         AR    RF,R8 .            POINT TO CORRECT PFT-ENTRY       IB3.5 40840028
0011AA 488F 0004           00004  1491+         LH    R8,D4(RF) .        LOAD PAGE NUMBER                 IB3.5 40860028
0011AE 1288                       1492+         LTR   R8,R8 .            PAGE NOT USED?                     PF 40880028
0011B0 4740 B1D8           011D8  1493+         BC    M,VIRTAD2          YES,RETURN                       IB3.5 40900028
0011B4 9104 F001      00001        1494+         TM    D1(RF),M4 .        DRAP BIT ON                      IB3.5 40920028
0011B8 4710 B1D8           011D8  1495+         BC    O,VIRTAD2          YES,RETURN                       IB3.5 40940028
0011BC 8D80 000B           0000B  1496+         SLDL  R8,D11 .           R8=VITRUAL ADDRESS                  EM 40960028
0011C0 198E                       1497+         CR    R8,RE .            VIRTUAL=REAL                       EM 40980028
0011C2 4780 B1DC      011DC        1498+         BE    VIRTAD1 .          YES                                EM 41000028
0011C6 58F0 07D0           007D0  1499+         L     RF,APFTX .         GET ADDESS OF PFTX               IB3.5 41020028
0011CA 88E0 000B           0000B  1500+         SRL   RE,D11 .           CALC.REAL PAGE NUMBER               EM 41040028
                                  1501+*                                = OFFSET IN PFTX                   EM 41060028
0011CE 1AEF                       1502+         AR    RE,RF .            POINT TO CORRECT PFTX-ENTRY      IB3.5 41080028
0011D0 9500 E000      00000        1503+         CLI   D0(RE),ZERO .      PAGE PFIXED                        EM 41100028
0011D4 4770 B1DC           011DC  1504+         BC    NE,VIRTAD1         NO,RETURN                        IB3.5 41120028
0011D8 1BFF                       1505+VIRTAD2  SR    RF,RF              CLEAR PARAMETER RETURN REGISTER  IB3.5 41140028
0011DA 07F6                       1506+         BR    R6                 RETURN                           IB3.5 41160028
0011DC 18F8                       1507+VIRTAD1  LR    RF,R8 .            LOAD RETURN PARAMETER               EM 41180028
0011DE 4166 0000           00000  1508+         LA    R6,D0(R6) .        CLEAR HIGH ORDER BYTE               EM 41200028
0011E2 5960 086C           0086C  1509+         C     R6,DISPAD .        VIRTAD CALLED BY SVC 70      @DM05356 41220033
0011E6 0776                       1510+         BCR   NE,R6 .            NO,RETURN TO SUPERVISOR RTN         EM 41240028
0011E8 4110 002C           0002C  1511+         LA    R1,SVER00-SVEARA . INDICATE PARAMETER REG.             EM 41260028
0011EC 47F0 B140      01140        1512+         B     RETCODE .          PASS VIRT.ADDRESS TO CALLER         EM 41280028
0011F0 58E0 0778           00778  1513+SVC71    L     RE,APMGR .         SET BASE FOR PAGE MANAGER           EM 41340028
                           082E6  1514+         USING PMGRADR,RE                                             41360028
0011F4 1200                       1515+         LTR   R0,R0 .            PARAMETER PASSED                    EM 41380028
0011F6 4770 B200      01200        1516+         BNZ   SETPFA .           YES                                 EM 41400028
0011FA 4530 E4EA           087D0  1517+         BAL   R3,RESPHO .        NO,RESET LINKAGE                    EM 41420028
0011FE 07F6                       1518+         BR    R6 .               EXIT TO DISPATCHER                  EM 41440028
001200 4850 0752           00752  1519+SETPFA   LH    R5,TIK  .          GET USER ID                         EM 41460028
001204 8850 0001           00001  1520+         SRL   R5,D1 .            GET OFFSET IN THE                   EM 41480028
001208 5A50 E456           0873C  1521+         A     R5,APFATAB .       SET PAGE FAULT APP.TABLE            EM 41500028
00120C 5005 0000           00000  1522+         ST    R0,D0(R5) .        STORE/CLEAR USER ADDRESS            EM 41520028
001210 07F6                       1523+         BR    R6 .               EXIT                                EM 41540028
                                  1524+         DROP  RE                                                    EM 41560028
001212 1820                       1525+SVC77    LR    R2,R0 .            PREPARE PAR.FOR CSWTRSVC     @DM02325 41981028
001214 5890 077C           0077C  1526+         L     R9,ACCWT .         SET BASE FOR CCW-TRANSL.     @DM02325 41985028
                           06B70  1527+         USING CCWTADR,R9                                    @DM02325 41986028
001218 4570 9C62           077D2  1528+         BAL   R7,CSWTRSVC        GET ADDR.OF ORIGINAL USER CCW@DM02325 41987028
                           02EDA  1529+         USING INTRTN,R9          RESTORE STANDARD ADDRESSING  @DM02325 41989028
00121C 4110 002C           0002C  1530+         LA    R1,SVER00-SVEARA . PASS RETURN PARAM.IN REG0    @DM02325 41990028
001220 47F0 B140      01140        1531+         B     RETCODE            TO CALLER                    @DM02325 41992028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001224 4820 07B4            007B4  1532+SVC088   LH    R2,TPBAL           GET TP BALANCING PARAMETER   @D31AUHL 42702431
001228 1222                        1533+         LTR   R2,R2              IS TP BALANCING DESIRED      @D31AUHL 42702631
00122A 0786                        1534+         BZR   R6                NO,IMMEDIATE RETURN          @D31AUHL 42702831
00122C 9602 0739      00739        1535+         OI    SYSFLAG2,TPBIT     CLOSE REACTIVATION           @D31AUHL 42703031
001230 94FB 073B      0073B        1536+         NI    SYSFLAG4,XFF-KLLRSTBT RESET KILL-RESET REQUEST  @DA08430 42703133
001234 9102 073B      0073B        1537+         TM    SYSFLAG4,KLLEDBIT IS BATCH DEACTIVATED ALREADY  @D31AUHL 42703231
001238 0716                        1538+         BOR   R6                YES,EXIT                     @D31AUHL 42703431
                            082E6  1539+         USING PMGRADR,RE,RF,RD   DECLARE BASES               @D31AUHL 42703631
00123A 58E0 0778            00778  1540+         L     RE,APMGR           LOAD PRIMARY BASE            @D31AUHL 42703831
00123E 98DF E49E            08784  1541+         LM    RD,RF,BSEADRS      LOAD BASEREGS FOR PMGR       @D31AUHL 42704031
001242 1B33                        1542+         SR    R3,R3              SET LLEV-                    @D31AUHL 42705031
001244 1B44                        1543+         SR    R4,R4                   CONSTANTS               @D31AUHL 42705231
001246 5030 D4CE            0A7B4  1544+         ST    R3,ACONST                 TO                    @D31AUHL 42705431
00124A 9034 D4DA            0A7C0  1545+         STM   R3,R4,BCONST                ZERO               @D31AUHL 42705631
00124E 5030 D4E2            0A7C8  1546+         ST    R3,DCONST                                      @DA08738 42705833
001252 D201 08F4 067E 008F4 0067E  1547+         MVC   TPPIK(L2),PIK      SAVE PIK                     @D31AUHL 42706033
                                   1548+         DROP  RD,RE,RF                                        @D34RDFG 42706234
001258 07F6                        1549+         BR    R6                 EXIT                         @D31AUHL 42706431

00125A 94FD 0739      00739        1551+SVC089   NI    SYSFLAG2,XFF-TPBIT OPEN REACTIVATION            @D31AUHL 42706831
00125E 9604 073B      0073B        1552+         OI    SYSFLAG4,KLLRSTBT  REQUEST KILL-RESET           @D31AUHL 42707031
001262 07F6                        1553+         BR    R6                 EXIT                         @D31AUHL 42707231

001264 BF08 B280            01280  1555+SVC90    ICM   R0,M8,IC90              INDICATE SVC90          @D30EULR 42712630
001268 58F0 0014            00014  1556+         L     RF,CRADDR               PARTITION COMREG ADDR   @D30EULR 42713030
                            00000  1557+         USING COMREG,RF          DECLARE ADDRESSABILITY     @DM11453 42713131
00126C 9180 F0A4      000A4        1558+         TM    POWFLG1,X'80'      ACCOUNT SUPPORT              @D30EULR 42713230
                                   1559+         DROP  RF                                              @D30EULR 42713330
001270 4710 B286      01286        1560+         BO    SVC91A             BRANCH IF YES                @D30EULR 42714130
001274 18F0                        1561+         LR    RF,R0              GET ECB ADDR                 @D30EULR 42716130
001276 41FF 0000            00000  1562+         LA    RF,0(RF)           ZERO HIGH ORDER BYTE         @D30EULR 42716230
00127A 9680 F002      00002        1563+         OI    2(RF),TRABIT       POST ECB                     @D30EULR 42718030
00127E 07F6                        1564+         BR    R6                 EXIT                         @D30EULR 42718230

001280 90                          1566+IC90     DC    X'90'              SVC90 INDICATOR              @D30EULR 42718430
001281 91                          1567+IC91     DC    X'91'              SVC91 INDICATOR              @D30EULR 42718530

001282 BF08 B281            01281  1569+SVC91    ICM   R0,M8,IC91              INDICATE SVC91          @D30EULR 42720030
001286 58F0 0754            00754  1570+SVC91A   L     RF,APOWTB          ADDR POWER TABLE             @D30EULR 42725630
                            00000  1571+         USING PADS,RF            DECLARE ADDRESSABILITY     @D30EULR 42727630
00128A 58F0 F188            00188  1572+         L     RF,CA90            ADDR SVC91 INTERFACE         @D30EULR 42729630
                                   1573+         DROP  RF                                              @D30EULR 42730030
00128E 058F                        1574+         BALR  R8,RF              GO TO SVC91 INTERFACE       @D30EULR 42730430
001290 07F6                        1575+         BR    R6                 EXIT                         @D30EULR 42731530
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  1577+*************************************************************** 42754330
                                  1578+*        THIS ROUTINE FINDS THE PUB2 ADDRESS AND RETURNS IT IN R8     * 42760028
                                  1579+*************************************************************** 42780028

001292 50F0 B2C0            012C0 1581+RMSGETP2 ST    RF,RMSSAVE          SAVE REG F                  @DA01234 42810031
001296 58F0 075C            0075C 1582+         L     RF,RFTABAD .        LOAD ADDRESS OF RF TABLE.   @DA01234 42820031
                            137D8 1583+         USING RFTABLE,RF .        MAKE IT ADDRESSABLE                  42840028
00129A 1883                       1584+         LR    R8,R3 .             COPY PUB ADDRESS                  HL 42860028
00129C 4930 0690            00690 1585+         CH    R3,YPUBTAB .        IS IT HEAD QUEUE REQUEST    @DM01647 42870028
0012A0 47B0 B2A8      012A8       1586+         BNL   RMSGNOHQ .          NO,USE ORIGINAL PUB         @DM01647 42872028
0012A4 4880 3008            00008 1587+         LH    R8,PUBPTR .         LOAD ADDR.OF ORIG.PUB       @DM01647 42874028
0012A8 4B80 0690            00690 1588+RMSGNOHQ SH    R8,YPUBTAB .        GET NORMAL PUB INDEX        @DM01647 42880028
0012AC 8880 0002            00002 1589+         SRL   R8,L2 .             ADJUST FOR PUB2 INDEX             HL 42900028
0012B0 4888 F034            1380C 1590+         LH    R8,RFP2ITAB(R8) .   GET PUB2 INDEX FROM TABLE         HL 42920028
0012B4 5A80 F030            13808 1591+         A     R8,RFP2ENT .        GET ADDRESS OF PUB2                  42940028
0012B8 58F0 B2C0            012C0 1592+         L     RF,RMSSAVE          RESTORE REG F               @DA01234 42950031
0012BC 07FE                       1593+         BR    RE .                RETURN TO CALLER                     42960028
0012C0                            1594+RMSSAVE  DS    F                   SAVE AREA FOR REG F         @DA01234 42970031

                                  1596+*************************************************************** 43520028
                                  1597+*        ADDRESS VALIDATION ROUTINE.                          * 43540028
                                  1598+*************************************************************** 43560028

0012C4 BD27 0681            00681 1600+VALIDSVA CLM   R2,M7,EOVSADR+1     THIS ENTRY TO THE VALIDATE  @DM06083 43590029
0012C8 4720 B326      01326       1601+         BH    ERR25C              ROUTINE IS USED FOR THOSE   @DM06083 43592029
0012CC BD17 07ED            007ED 1602+         CLM   R1,M7,ASVA+1        SVC'S THAT CAN HAVE READONLY @DM06083 43594029
0012D0 07B8                       1603+         BNLR  R8                  PARM FIELDS IN THE SVA      @DM06083 43596029

0012D2 D502 0871 A005 00871 00005 1605+VALID    CLC   LTAREA2+1(L3),PIBSAVE+1 REQUEST FROM LTA?            191 43600028
                            012D2 1606+COMPCLC  EQU   VALID .               USED BY EX INSTRUCTIONS             43620028
0012D8 0788                       1607+         BCR   E,R8 .              YES,RETURN                       AC 43640028
0012DA B152 0000            00000 1608+VALIDR2  LRA   R5,D0(R2) .         LOAD REAL ADDRESS OF HIGH ADDRESS EM 43660028
0012DE 4120 B2FA            012FA 1609+         LA    R2,VALIDNXT .       PREVENT RETURN BEF.TEST OF LOW ADDREM 43680028
0012E2 4770 B304      01304       1610+         BNZ   VALIDTST .          BR.IFNO VALID PT ENTRY EXISTS    EM 43700028
0012E6 4350 067F            0067F 1611+VALIDOK  IC    R5,PIK+1 .          GET PROGRAM KEY IN LOW ORDER BYTE   43720028
0012EA 0955                       1612+         ISK   R5,R5 .             GET STORAGE KEY IN LOW ORDER BYTE FR 43740028
0012EC 5450 B6C4            016C4 1613+PCKADR2  N     R5,ISKMASK .        CLEAR 4 LOW ORDER BITS           FR 43760028
0012F0 4950 067E            0067E 1614+         CH    R5,PIK .            MATCHING KEY                     FR 43780028
0012F4 0782                       1615+         BCR   E,R2 .              YES,RETURN OR GOT O VALIDNEXT    FR 43800028
0012F6 47F0 B326      01326       1616+         B     ERR25C .            NO,ERROR,CANCEL USER          AP,FR 43820028
0012FA 1828                       1617+VALIDNXT LR    R2,R8 .             LOAD RETURN ADDRESS FOR EXIT     FR 43840028
0012FC B151 0000            00000 1618+         LRA   R5,D0(R1) .         LOAD REAL ADDR.OF LOW ADDR.      FR 43860028
001300 4780 B2E6      012E6       1619+         BZ    VALIDOK .           BR.IF VALID PT ENTRY EXISTS      FR 43880028
001304 47D0 B326      01326       1620+VALIDTST BNH   ERR25C .            ERROR,TABLE LENGTH VIOLATION  AP,FR 43900028
001308 4855 0000            00000 1621+         LH    R5,D0(R5) .         LOAD PT ENTRY OF PAGE            FR 43920028
00130C 47F0 B2EC      012EC       1622+         B     PCKADR2 .           GO TO COMPARE KEY                FR 43940028

                                  1624+*-------------------------------------------------------------BSW 44000028
                                  1625+*                                                              BSW 44020028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  1626+*        PURGE WAIT LIST ENTRY - SUBROUTINE                          BSW 44040028
                                  1627+*                                                                    BSW 44060028
                                  1628+*        ENTRY POINT:  PURWAITL                                      BSW 44080028
                                  1629+*                                                                    BSW 44100028
                                  1630+*        INPUT:        R7 CONTAINS RETURN ADDRESS,                   BSW 44120028
                                  1631+*                      FIELDS  TIK (OR PIK IF AP=NO), AWAITL  @DF00913 44140028
                                  1632+*                                                                    BSW 44160028
                                  1633+*        OUTPUT:       REQUESTOR'S WAIT LIST ENTRY RESET TO X'FFFF' BSW 44180028
                                  1634+*                                                                    BSW 44200028
                                  1635+*        EXIT:         TO ADDRESS IN R7                              BSW 44220028
                                  1636+*                                                                    BSW 44240028
                                  1637+*        SUBROUTINES:  NONE                                  @DF00913 44260028
                                  1638+*                                                                    BSW 44280028
                                  1639+*        REGS CHANGED: R5,R8                                 @DF00913 44300028
                                  1640+*                                                                    BSW 44320028
                                  1641+*----------------------------------------------------------------BSW 44340028

001310 4880 0752            00752  1643+PURWAITL LH    R8,TIK  .          COMPUTE DISPLACEMT OF REQUESTING  BSW 44380028
001314 8880 0003            00003  1644+         SRL   R8,3 .                TASK'S WAIT LIST SLOT         BSW 44400028
001318 5850 B61C            0161C  1645+         L     R5,AWAITL .       (R540 := ADDRESS 0F WAIT LIST@DF00913 44420028
00131C 1E58                        1646+         ALR   R5,R8 .           (R5):=ADDR OF REQ'S WAITLIST SLOT BSW 44440028
00131E 1188                        1647+         LNR   R8,R8 .           HI-ORDER BYTES OF R8 := X'FFFF'   BSW 44460028
001320 BE8C 5000            00000  1648+         STCM  R8,M12,0(R5) .    RESET WAIT LIST ENTRY             BSW 44480028
001324 07F7                        1649+         BR    R7 .              LEAVE SUBROUTINE                  BSW 44500028

                            01326  1651+ERR25C   EQU   * .                ERROR CASE                          AS 44580028
001326 9509 073D      0073D        1652+         CLI   SELECT,CRT .      CRT ACTIV                           AS 44600028
00132A 4770 09F2      009F2        1653+         BNE   ERR25 .           NO, HANDLE ERROR                    AS 44620028
00132E 9608 B8A4      018A4        1654+         OI    CRTFLG1,CRTERADR . FLAG ERROR                       AS 44640028
001332 07F8                        1655+         BR    R8 .              RETURN TO CALLER                  AS 44660028

                                  1657+************************************************************** 44780028
                                  1658+*        ATTENTION/REQUEST CANCEL.                             * 44800028
                                  1659+************************************************************** 44820028

001334 4110 B59A            0159A  1661+ATNRTN   LA    R1,ATTNNM .       SET PHASE NAME POINTER           112 44860028
001338 4570 0DB2            00DB2  1662+         BAL   R7,JAXIT .        GO TO SET COUNTERS FOR JOB ACCT.   JB 44900028
00133C 9160 A008      00008        1663+         TM    ARFLG,REQPTA+DELCAN REQUEST FOR ABERRZ/ABERZ1  @DM03444 45000028
001340 58D0 088C            0088C  1664+         L     RD,PGMBASE        SET BASE FOR FETCH SVC'S     @D34RDFG 45010034
                            0E1E4  1665+         USING SGPGM,RD                                     @D34RDFG 45020034
001344 4780 D028      0E20C        1666+         BZ    SVC02 .           FETCH $$BATTNA IF NOT        @DM03444 45040028
                                   1667+         DROP  RD                                           @D34RDFG 45050034

                            01348  1669+FCHZ     EQU   * .               INITIATE PHYSICAL ATTN RTN       IDRA 45080028
001348 5880 0708            00708  1670+         L     R8,AFETCH         ADDRESS FETCH ROUTINE        @DL29ZCF 45110029
00134C 9500 0955      00955        1671+         CLI   TRTIDRA,ZERO .    INDEPENDANT READ IN AREA IN USE  IDRA 45120028
001350 0788                        1672+         BER   R8                Y, DON'T OVERRIDE PHASE NAME @DL29ZCF 45140029
001352 9285 A000      00000        1673+         MVI   PIBFLG,PTABND .   SET ATTENTION TO PTA-BOUND   @DM01378 45150828
001356 9500 096B      0096B        1674+         CLI   TRTPTA,ZERO .     PHYSICAL TRANSIENT AREA IN USE   IDRA 45160028
00135A 0786                        1675+         BCR   E,R6 .            YES,DON'T OVERRIDE PHAS.NAME @DM01378 45180028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00135C 5820 06F8            006F8  1676+          L     R2,AERBLOC           GET BASE FOR ERBLOC          @DM01435 45230028
                            10260  1677+          USING ERBLOC,R2                                           @DM01435 45280028
001360 D201 2006 B650 10266 01650  1678+          MVC   SVC5NM+D6(L2),RZ .   SET UP CORRECT PHASE NAME        IDRA 45320028
001366 9140 A008      00008        1679+          TM    ARFLG,REQPTA .       REQUEST FOR ABERRZ/ABERZ1    @DM03444 45330028
00136A 58D0 0890            00890  1680+          L     RD,ERPBASE           SET BASE FOR ERP INTERFACE   @D34RDFG 45340034
                            0E494  1681+          USING SGERP,RD                                            @D34RDFG 45350034
00136E 4710 D0E6      0E57A        1682+          BO    ERPSVC .             GOTO FETCH ABERRZ            @DM03444 45370028
001372 92E9 2006      10266        1683+          MVI   SVC5NM+D6,C'Z' .     FETCH ABER.....              @DM03444 45370428
001376 92F1 2007      10267        1684+          MVI   SVC5NM+D7,C'1' .     FETCH ABERZ1                 @DM03444 45370828
00137A 47F0 D0E6      0E57A        1685+          B     ERPSVC .             GOTO FETCH ABERZ1            @DM03444 45372028
                                   1686+          DROP  RD                                                  @D34RDFG 45376034
                                   1687+          DROP  R2                                                  @DM01435 45380028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00137E 1876                      1689+SVC60    LR    R7,R6 .             INDICATE SVC REQUEST                EM 45440028
001380 5880 A004           00004 1690+         L     R8,PIBSAVE .        POINT TO USER SAVE AREA             EM 45460028
001384 9500 073D      0073D      1691+         CLI   SELECT,ZERO .       REQUEST FROM SYSTEM TASK            EM 45480028
001388 4780 B394      01394      1692+         BE    NXT4 .              NO                                  EM 45500028
00138C 5880 0794           00794 1693+         L     R8,ASYSBLKX .       GET SAVE AREA POINTER OF            EM 45520028
                           00000 1694+         USING SYSBLKS,R8 .        CURRENTLY ACTIVE SYSTEM TASK      EM 45540028
001390 5880 8004           00004 1695+         L     R8,SYSAVAR .        LOAD SYSTEMTASK SAVE AREA DDDRESS   EM 45560028
                           00000 1696+         USING SVEARA,R8 .         RESTORE STANDARD ADDRESSING       EM 45580028
001394 5880 804C           0004C 1697+NXT4     L     R8,SVER08 .         GET POINTER TO CCW                  EM 45600028
001398 9046 B6E4           016E4 1698+GETDADR  STM   R4,R6,SAVER4 .     SAVE REGISTERS R4,R5,R6             EM 45620028
00139C 9089 B6F0           016F0 1699+         STM   R8,R9,SAVER8 .     SAVE WORKREG.S OF VIRTAD     @DM01266 45624028
0013A0 50E0 B6F8           016F8 1700+         ST    RE,SAVERE .                                     @DM01266 45626028
0013A4 1B44                      1701+         SR    R4,R4 .                                             EM 45640028
0013A6 18F4                      1702+         LR    RF,R4 .             CLEAR RETURN REGISTER               PF 45660028
0013A8 D503 8001 8001 00001 00001 1703+PCKSVC60 CLC   D1(L4,R8),D1(R8) . DUMMY COMP.FOR VALIDATION    @DM01266 45662028
                                  1704+*                                PROGR.CHECK MAY OCCUR HERE  @DM01266 45664028
0013AE BF47 8001           00001 1705+         ICM   R4,M7,D1(R8) .      LOAD CCW DATA ADDRESS               EM 45680028
0013B2 5940 07E4           007E4 1706+         C     R4,EOCADDR          REAL STORAGE ADDRESS        @DM11453 45700031
0013B6 4720 B418      01418      1707+         BH    GETD3 .             NO,ERROR                            EM 45720028
0013BA 9104 8004      00004      1708+         TM    D4(R8),IDAL .       IDAL BIT ON                         EM 45740028
0013BE 4780 B3FA      013FA      1709+         BZ    GETD2 .             NO                                  EM 45760028
0013C2 1894                      1710+         LR    R9,R4 .             PREPARE PARAM.FOR VIRTAD    @DM01266 45764028
0013C4 4560 B18C           0118C 1711+         BAL   R6,VIRTAD .         CONVERT ADDR.OF IDAL TO VIRT.@DM01266 45766028
0013C8 124F                      1712+         LTR   R4,RF .             IS ADDRESS VALID            @DM01266 45768028
0013CA 4780 B418      01418      1713+         BZ    GETD3 .             NO                          @DM01266 45770028
0013CE 1BFF                      1714+         SR    RF,RF               CLEAR RETURN REGISTER AGAIN  @DA08461 45770433
0013D0 5864 0000           00000 1715+GETD0    L     R6,D0(R4) .         POINT TO NEXT PART OF I/OAREA       EM 45780028
0013D4 5460 B6E0           016E0 1716+         N     R6,CLEARMSK .       CALCULATE REMAINDER                 EM 45800028
0013D8 4B60 B6DC           016DC 1717+         SH    R6,H2048 .          SUBTRACT 2 K                        EM 45820028
0013DC 1366                      1718+         LCR   R6,R6 .             R6 CONT.LENGTH OF THIS PART OF I/O  EM 45840028
0013DE 1906                      1719+         CR    R0,R6 .             OFFSET LESS I/OAREA PART            EM 45860028
0013E0 4740 B3EE      013EE      1720+         BL    GETD1 .             YES                                 EM 45880028
0013E4 4144 0004           00004 1721+         LA    R4,D4(R4) .         POINT TO NEXT IDALWORD              EM 45900028
0013E8 1B06                      1722+         SR    R0,R6 .             NEW OFFSET                          EM 45920028
0013EA 47F0 B3D0      013D0      1723+         B     GETD0 .             NEXT PART OF I/O AREA               EM 45940028
0013EE 5844 0000           00000 1724+GETD1    L     R4,D0(R4) .         LOAD ADDR.OF I/O AREA PART          EM 45960028
0013F2 5540 07E4           007E4 1725+         CL    R4,EOCADDR          REAL ADDR.OF I/O AREA        @DA08461 45965033
0013F6 4720 B418      01418      1726+         BH    GETD3               NO,INDICATE INVALID VALUE    @DM03329 45970028
                                  1727+*                                IN AN IADW THE FIRST BYTE    @DM03329 45975028
                                  1728+*                                SHOULD BE ZERO,SO FULL REG.IS COMPAR. 45976028
0013FA 1A40                      1729+GETD2    AR    R4,R0 .             R4 CONT.REAL ADDR.IN I/O AREA       EM 45980028
                                  1730+*      CALCULATE VIRTUAL ADDRESS FROM REAL PAGE FRAME NUMBER       EM 46000028
0013FC 5860 07CC           007CC 1731+         L     R6,APFT .           POINT TO PAGE FRAME TABLE           EM 46020028
001400 8C40 000B           0000B 1732+         SRDL  R4,D11 .            CALCULATE REAL PAGE NUMBER          EM 46040028
001404 8940 0003           00003 1733+         SLL   R4,D3 .             L'ENRTY IN PAGE FRAME TAB. 8 BYTES  EM 46060028
001408 4846 4004           00004 1734+         LH    R4,D4(R6,R4) .      LOAD CONTENTS OF PFT ENTRY          PF 46080028
00140C 1244                      1735+         LTR   R4,R4 .             PAGE USED?                          PF 46100028
00140E 4740 B418      01418      1736+         BM    GETD3 .             BRANCH IF NOT                       PF 46120028
001412 8D40 000B           0000B 1737+         SLDL  R4,D11 .            CALCULATE VIRTUAL ADDRESS OF PAGE   EM 46140028
001416 18F4                      1738+         LR    RF,R4 .             LOAD RETURN REGISTER                EM 46160028
001418 9846 B6E4           016E4 1739+GETD3    LM    R4,R6,SAVER4 .      RESTORE R4,R5,R6                    EM 46180028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00141C 9889 B6F0            016F0  1740+         LM    R8,R9,SAVER8 .     RESTORE REGISTER 8,9,E       @DM01266 46184028
001420 58E0 B6F8            016F8  1741+         L     RE,SAVERE .                                     @DM01266 46186028
001424 1967                        1742+         CR    R6,R7 .            WAS IT CALLED BY SVC              EM 46200028
001426 0777                        1743+         BCR   NE,R7 .            NO,FROM I/O INTERR.HANDLER        EM 46220028
001428 4110 0028            00028  1744+         LA    R1,SVER0F-SVEARA . INDICATE PARAMETER REG.           EM 46240028
00142C 47F0 B140      01140        1745+         B     RETCODE .          PASS VIRT.ADDR. TO CALLER         EM 46260028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   1747+************************************************************************ 86000028
                                   1748+*                                                                      * 86040028
                                   1749+*        THE FOLLOWING IS A BOOTSTRAP FOR ERP TRANSIENTS RETURNING     * 86060034
                                   1750+*        TO THE SUPERVISOR, USING THE Y-TYPE ADDRESS AT YERPEXIT.      * 86080034
                                   1751+*        THE CODE HAS BEEN MOVED TO SGERP.                             * 86120034
                                   1752+*                                                                      * 86240028
                                   1753+************************************************************************ 86280028

001430 58D0 0890           00890   1755+ERPEXITY L     RD,ERPBASE         LOAD SGERP BASE              @D34RDFG 86326034
                           0E494   1756+          USING SGERP,RD                                        @D34RDFG 86332034
001434 47F0 D10E      0E5A2        1757+          B     ERPEXIT            BRANCH TO ACTUAL  ROUTINE    @D34RDFG 86338034
                                   1758+          DROP  RD                                              @D34RDFG 86344034

                                   1760+*                                                                      89120028
                                   1761+*                                                                      89160028
                                   1762+*        THIS ROUTINE IS CALLED BY THE PAGE MANAGER WHENEVER A TFIX    89200028
                                   1763+*        REQUEST CAN NOT BE SATISFIED BECAUSE NO MORE PAGE FRAMES      89240028
                                   1764+*        AVAILABLE,NO FETCH-OR CCW-TRANSLATION REQUEST HAS A PENDING   89280028
                                   1765+*        FUNCTION WHICH COULD FREE UP PAGE FRAMES, AND RESETTING       89320028
                                   1766+*        OF BOTH OF THESE ROUTINES HAS NO FREED UP ANY PAGE FRAMES.    89360028
                                   1767+*                                                                      89400028
                                   1768+*                                                                      89440028

001438 4150 0010           00010   1770+RSTSV44  LA    R5,L'SVC44FLD .    LOAD NUM.OF TASKS FOR LOOP CONTROL EM 89520028
00143C 4170 B705           01705   1771+          LA    R7,SVC44FLD .      POINT TO SVC 44 CONTROL FIELD      EM 89560028
001440 1BAA                        1772+          SR    RA,RA .            CLEAR REGISTER FOR KEY             EM 89600028
001442 BFA1 7000           00000   1773+NXT11     ICM   RA,M1,D0(R7) .     GET NUMBER OF TASK                 EM 89640028
                                   1774+*                                 HAS THIS TASK SVC44 TFIX REQU.PEND.   89680028
                                   1775+*                                 (AR TASK MAY NOT CAUSE A PAGE FAULT   89720028
                                   1776+*                                 WITHIN A SUPERVISOR SERVICE)       EM 89760028
001446 4770 B454      01454        1777+          BNZ   RESET44 .          YES, RESET REQUEST                 EM 89800028
00144A 4177 0001           00001   1778+          LA    R7,D1(R7) .        INCREASE POINTER                   EM 89840028
00144E 4650 B442           01442   1779+          BCT   R5,NXT11 .         ALL TASKS CHECKED                  EM 89880028
001452 07F8                        1780+          BR    R8 .               YES, EXIT TO PAGE MANAGER          EM 89920028

001454 89A0 0004           00004   1782+RESET44   SLL   RA,D4 .           GET KEY OF TASK TO BE RESET        EM 90000028
001458 1B22                        1783+          SR    R2,R2 .            CLEAR INDICATOR,FOR ENTRY IN PGQU  EM 90040028
00145A 5890 077C           0077C   1784+          L     R9,ACCWT .         SET BASE FOR CCW TRANSLATION       EM 90080028
                           06B70   1785+          USING CCWTADR,R9 .       BRANCH TO DELETE ENTRY IN PGQU     EM 90120028
00145E 4540 9DC2           07932   1786+          BAL   R4,DELENTB .       IF THERE IS ONE FOR THIS TASK      EM 90160028
                           02EDA   1787+          USING INTRTN,R9 .        RESTORE STANDARD ADDRESSING        EM 90200028
001462 47F0 B46A      0146A        1788+          B     NXT2 .             NO ENTRY IN PGQU,TFIX ALR.COMPLETEDEM 90240028
001466 4120 0001           00001   1789+          LA    R2,D1 .            INDICATE ENTRY WAS FOUND IN PGQU   EM 90280028
00146A 5860 086C           0086C   1790+NXT2      L     R6,DISPAD .        RESTORE DISPATCHER ADDRESS   @DM05356 90320033
00146E 4AA0 06AA           006AA   1791+          AH    RA,YPIBTAB .       POINT TO PIB OF THE TASK           EM 90360028
001472 45F0 B4A4           014A4   1792+          BAL   RF,NXT3 .          PREPARE SAVE AREA 2 FOR RESUMING   EM 90400028
                                   1793+*                                 EXECUTION OF SVC 44 LATER          EM 90440028
                                   1794+*                                 AND THERE ALL ALREADY TFIXED PAGES EM 90480028
001476 926D A000      00000        1795+          MVI   PIBFLG,PFGBND .    SET TASK WAITING                   EM 90560028
00147A 9200 0953      00953        1796+          MVI   TRTPFG,ZERO .      PREVENT ACTIV. OF PFG BOUND TASK   EM 90600028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00147E 9500 095D      0095D        1797+         CLI   TRTFIX,ZERO .      HAS TFIX BEEN POSTED DUE TO TFREE  EM 90680028
001482 4780 B438      01438        1798+         BE    RSTSV44 .          NO,CHECK FOR NEXT TASK             EM 90720028
001486 07F8                        1799+         BR    R8 .               YES, STOP RESETTING AND RETURN     EM 90760028
                                   1800+*                                 TO PAGE MANAGER                    EM 90800028



                                   1802+*                                                                      90880028
                                   1803+*                                                                      90920028
                                   1804+*        BEFORE A TASK IS DEACTIVATED BECAUSE OF TO  HEAVY PAGE TRAFFIC 90960028
                                   1805+*        THIS ROUTINE WILL CHECK WHETHER AN SVC44 FOR THE TASK HAS     91000028
                                   1806+*        A TFIX REQUEST PENDING.IN THIS CASE THE TFIXED PAGES WILL BE  91040028
                                   1807+*        TFREED.                                                       91080028
                                   1808+*        IF THE TFIX REQUEST HAS NOT YET BEEN STISFIED YHE             91120028
                                   1809+*        DEACTIVATION ROUTINE WILL ELIMINATE THE REQUEST FROM THE PAGE 91160028
                                   1810+*        REQUEST QUEUE.                                                91200028
                                   1811+*        REGISTER USAGE                                                91240028
                                   1812+*        R0,R1,R2.R5,R8 MAY NOT BE DESTROYED IN THIS ROUTINE           91280028
                                   1813+*        R2    POINTS TO PERTINENT ENTRY IN PGQU IF THE REQU. IS PEND.  91320028
                                   1814+*              IT IS ZERO IF THE REQ. IS ALREADY HANDLED BUT THE TASK  91360028
                                   1815+*              HAD NOT YET REGAINED CONTROL.                           91400028
                                   1816+*        R7    CONTAINS THE KEY OF THE TASK                            91440028
                                   1817+*        R8    CONTAINS THE RETURN ADDRESS TO THE DEACTIVATION ROUTINE  91480028
                                   1818+*        EXIT  TO R8,IF AN SVC 44 FOR THE TASK WAS RESET               91520028
                                   1819+*              TO R8+4 IF NO RESETTING WAS NECESSARY                   91560028
                                   1820+*                                                                      91600028
                                   1821+*                                                                      91640028
001488 5010 B6E4            016E4  1822+SVDEACT  ST    R1,SAVER4 .        SAVE REGISTER OF DEACTIVAT.ROUTINE EM 91680028
00148C 5070 B6E8            016E8  1823+         ST    R7,SAVER4+4 .      SAVE REGISTER OF DEACT.RTN   @DF00990 91720028
001490 8870 0004            00004  1824+         SRL   R7,D4 .            CAL.OFFSET IN SVC44 CONTROL FIELD  EM 91760028
001494 4177 B705            01705  1825+         LA    R7,SVC44FLD(R7) .  POINT TO BYTE FOR THIS PACK        EM 91800028
001498 9500 7000      00000        1826+         CLI   D0(R7),ZERO .      IS A SVC44 REQUEST PENDING         EM 91840028
00149C 4780 B4F0      014F0        1827+         BE    RETDEACT .         NO, NOTHING TO RESET               EM 91880028
0014A0 41F0 B4F4            014F4  1828+         LA    RF,OKDEACT .       LOAD ADDR.FOR RETURN FROM TFREE RTNEM 91920028
0014A4 9200 7000      00000        1829+NXT3     MVI   D0(R7),ZERO .      CLEAR SVC44 INDICATOR FOR THE TASK EM 91960028
0014A8 D60F B705 B705 01705 01705  1830+         OC    SVC44FLD,SVC44FLD  ANY OTHER REQUEST PENDING         EM 92000028
0014AE 4770 B4B6      014B6        1831+         BNZ   NOCL44 .           YES,DON'T CLEAR INDICATOR BIT      EM 92040028
0014B2 947F 08E4      008E4        1832+         NI    TFIXIDEN,XFF-SVC44IDN CLEAR TFIX IND. FOR SVC44      EM 92080028
0014B6 58E0 A008            00008  1833+NOCL44   L     RE,PIBSAV2 .       POINT TO SYSTEM SAVE AREA          EM 92120028
0014BA 5870 08B4            008B4  1834+         L     R7,ASVCX2          GET BASE FOR SVC ROUTINE     @DM11903 92130032
                            0B226  1835+         USING SGSVCX2,R7         DECLARE BASE                 @DM11903 92140032
                            00000  1836+         USING SVEARA,RE .                                           EM 92160028
0014BE 4110 7252            0B478  1837+         LA    R1,RECFINOK .      SET UP INSTR.IN PSW FOR RESTARTING EM 92200028
0014C2 5010 E00C            0000C  1838+         ST    R1,SVEPSW2 .       THE SVC 44 RTN WHEN TASK IS POSTED EM 92240028
0014C6 5810 E030            00030  1839+         L     R1,SVER01 .        LOAD ADDRESS OF FIRST              EM 92280028
0014CA 5840 E03C            0003C  1840+         L     R4,SVER04 .        AND LAST BYTE OF SD RECORD         EM 92320028
0014CE 4130 7280            0B4A6  1841+         LA    R3,TFX44+L'TFX44 . POINT BEHIND 2ND TFIX REQUEST      EM 92360028
0014D2 BD37 E01C            0001C  1842+         CLM   R3,M7,SVER0C .     WAS 2ND TFIX REQUEST INTERRUPTED   EM 92400028
0014D6 50C0 E01C            0001C  1843+         ST    RC,SVER0C .        RESTORE  BASEREG, FOR SUPERVISOR   EM 92440028
0014DA 4770 B4E8      014E8        1844+         BNE   TF1ONLY .          NO,1ST TFIX                        EM 92480028
0014DE 1222                        1845+         LTR   R2,R2 .            2ND TFIX REQUEST COMPLETED         EM 92520028
0014E0 4780 72E6      0B50C        1846+         BZ    TF44R2 .           YES, TFREE 2 TIMES                 EM 92560028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0014E4 47F0 72F6      0B51C        1847+         B     TF44R1 .           TFREE FIRST PAGE ONLY              EM 92600028

0014E8 1222                        1849+TF1ONLY  LTR   R2,R2 .            1ST TFIX REQUEST COMPLETED         EM 92680028
0014EA 4780 72F6      0B51C        1850+         BZ    TF44R1 .           YES, TFREE 1ST PAGE                EM 92720028
0014EE 07FF                        1851+         BR    RF .               SET UP FOR RETURN TO DEACTIVATION  EM 92760028
                                   1852+*                                 OR RESET ROUTINE                   EM 92800028
                                   1853+         DROP  R7                 DROP BASE FOR SVC44          @DM11903 92810032
                           00000   1854+         USING CCWADR,R7          RESTORE STANDARD ADDRESSING  @DM11903 92820032

0014F0 4188 0004           00004   1856+RETDEACT LA    R8,D4(R8) .        INDICATE NOTHING TO DEACTIVATE     EM 92880028
0014F4 58E0 0778           00778   1857+OKDEACT  L     RE,APMGR .         POINT TO PAGE MANAGER              EM 92920028
0014F8 5810 B6E4           016E4   1858+         L     R1,SAVER4 .        RESTORE REGISTERS                  EM 92960028
0014FC 5870 B6E8           016E8   1859+         L     R7,SAVER4+4 .      RESTORE REGISTERS            @DF00990 93000028
                           082E6   1860+         USING PMGRADR,RE                                          EM 93040028
001500 98BF E396           0867C   1861+         LM    RB,RF,PFSA .       LOAD REG.S FOR DEACTIVATION ROUTINEEM 93080028
001504 07F8                        1862+         BR    R8 .               RETURN TO DEACTIVATION ROUT.       EM 93120028
                                   1863+         DROP  RE                                                  EM 93160028
                                   1864+*                                                           @D348DUL 02750034
                                   1865+*        SUPERVISOR - VSTAB - 5745-SC-SUP - REL. 34.1       @DY14315 02850034
                                   1866+*                                                           @D348DUL 02900034
001506                     007E4   1867+         ORG   EOCADDR                                      @DM11453 40120031
0007E4 003FFFFF                    1868+         DC    A((2048*2048)-1)      .     END OF REAL STORAGE          40200028
0007E8                     01506   1869+         ORG                                                          40300028
001506                     00680   1870+         ORG   EOVSADR                                                75200028
000680 00FE6FFF                    1871+         DC    A((8142*2048)-1)      .     END OF VIRTUAL STORAGE       75300028
000684                     007EC   1872+         ORG   ASVA                                         @DL29ZCJ 75360029
0007EC 00EE7000                    1873+         DC    A(15626240)           START OF SVA         @DL29ZCJ 75370029
0007F0                     007F0   1874+         ORG   ASVIS                                        @DL29ZCJ 75390029
0007F0 00FC7000                    1875+         DC    A(16543744)           START OF SYSTEM GETVIS AREA  @DL29ZCJ 75392029
0007F4                     01506   1876+         ORG                                                          75400028
                                   1877+*                                                           @D348DUL 00600234
                                   1878+*        SUPERVISOR - ALLOC - 5745-SC-SUP - REL. 34.0       @D348DUL 00600634
                                   1879+*                                                           @D348DUL 00600834
                                   1880+*                                                           @D348DUL 00100134
                                   1881+*        SUPERVISOR - ALLOCR - 5745-SC-SUP - REL. 34.0      @D348DUL 00100334
                                   1882+*                                                           @D348DUL 00100434
                                   1883+* SUPERVISOR - IOTAB - 5745-SC-SUP - REL. 34.1             @DY20753 00183034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001506 0000
001508 00000000                  1885+OLTSAV   DC    F'0' .              OLTEP SAVE AREA                        07960028
00150C                           1886+OLTABL   DS    0F .                OLTEP TABLE                      451 07970028
00150C 0000DA66                  1887+OLTAPP1  DC    A(OLTRET1) .        THESE ADDRESSES                  451 07980028
001510 00002F38                  1888+OLTAPP2  DC    A(OLTRET2) .        ARE DYNAMICALLY MODIFIED         451 07990028
001514                           1889+         CNOP  4,8 .               FORCE ON MIDDLE OF DOUBLEWORD          08120028
001514 0000000000000000          1890+GMTDATE  DC    XL9'00' .           GREENWICH DATE                         08160028
00151D 5C                        1891+         DC    C'*' .              DELIMITER FOR DATE FIELD               08200028
00151E FED4                      1892+SYSTEMZN DC    AL2(65236) .        SYSTEM ZONE, MAY BE CHANGED BY IPL     08240028
001520 0000000000000000          1893+MIDNIGHT DC    D'0' .              MIDNIGHT IN MICROSECS.(GMT)            08280028
001528 0000000000000000          1894+CONVERTD DC    D'0' .              CONVERT DATE TO DECIMAL                08320028
001530 0000000000000000          1895+CLOCK    DC    D'0' .              FIELD FOR STORING CLOCK                08360028
001538 000000141DD76000          1896+DAYVALUE DC    FL8E9'86.4' .       DAY VALUE IN MICRO SECS.               08400028
001540 0000000000000000          1897+TEMPMIDN DC    D'0' .              TEMPORARY MIDNIGHT FIELD               08440028
001548 0000000000000000          1898+DDDYYFLD DC    D'0' .              DAYNUMBER AND YEARNUMBER               08480028
                         0154F   1899+YYFLD    EQU   DDDYYFLD+7 .        BYTE TO TEST LEAP YEAR                 08482528
001550 00000000                  1900+LOCTODTU DC    F'0' .              LOCAL TIME OF DAY IN TU'S              08520028
001554 00004650                  1901+MINTU    DC    FE3'18' .           TIMER UNITS PER MINUTE                 08560028
001558 018B8200                  1902+DAYTU    DC    FE4'2592' .         TIMER UNITS PER DAY                    08600028
00155C 0083D600                  1903+DIVCONS1 DC    FE5'86.4' .         SECONDS IN 100 DAYS                    08640028
001560 000005B5                  1904+FOURYEAR DC    F'1461' .           DAYS PER BLOCK OF 4 YEARS              08680028
001564 00000000                  1905+SAVEDAY  DC    F'0' .              SAVE FLD FOR DAY DIFF. (GMT)           08720028
001568 00000D05                  1906+TUDIVSOR DC    F'3333' .           DIVISOR TO GET TU'S FROM MICROSECONDS  08800028
00156C 00002710                  1907+DIVCONS2 DC    F'10000' .          DIVISOR VALUE OF 10000                 08880028
001570                   0156E   1908+         ORG   DIVCONS2+2 .        * RESET LOCATION CNTR TO GET           08920028
00156E                           1909+FIRSTITM DS    H .                 * SAME VALUE IN A HALFWORD             08960028
001570 0064                      1910+SECITEM  DC    H'100' .            DIVISOR VALUE                          09000028
001572                           1911+DATEFLDS DS    0CL9                TEMP SAVE FOR SYSTEM DATE    @DA09594  09050033
001572                           1912+DATEFLD  DS    CL6 .               DATE IN CHARACTER IMAGE                09080028
001578                           1913+DATEFLD2 DS    CL3                 DAYS IN CHARACTER IMAGE      @DA09594  09130033
00157B 001F1C1F1E1F1E1F          1914+MONTHTAB DC    AL1(0,31,28,31,30,31,30,31,31,30,31,30,31) DAYS/MONT       09160028
                         0157D   1915+FEBRUARY EQU   MONTHTAB+2 .        OFFSET IN TABLE                        09162528
001588                           1916+PARIND   DS    C .                 GETIME PARAMETER CODE STORED           09200028
                                 1917+*                                                                       09280028
001589 000000
00158C 0000405A                  1918+ADISKERR DC    A(DISKERR)          ADDRESS OF DISK ERP          @D34SDAP  09340034
001590 00FE                      1919+LUBIGN   DC    X'00FE' .           MASK FOR IGNORED LUB                   09800028
                         01590   1920+NOTOP    EQU   LUBIGN .            USED TO INDICATE NOT OPERATIONAL       09840028
001592 0004                      1921+H04      DC    H'4'                HALFWORD 4                   @DL29ZCJ  09842029
001594 0006                      1922+H6       DC    H'6' .              USED FOR VARIOUS CALCULATIONS          09842528
001596 0018                      1923+H24      DC    H'24' .             HALFWORD 24                            09920028
001598 000E                      1924+SYSLUBNO DC    H'14'   .             NUMBER OF SYSTEM LUBS                09960028
00159A 5B5BC2C1E3E3D5C1          1925+ATTNNM   DC    C'$$BATTNA' .       LOGICAL ATTENTION TRANSIENT            10000028
0015A2 5B5BC2C5D6D1F340          1926+ENDJOB   DC    CL8'$$BEOJ3' .      FIRST TERMINATOR PHASE                 10080028
                                 1927+*                                                                       10720028
0015AA 40404040404040            1928+IDOUT    DC    C'       '          MESSAGE PREFIX               @D34ADAP  10732034
0015B1 E2D740                    1929+SPREFIX  DC    C'SP '              SYSTEM PREFIX                @DM01256  10770028
0015B4 C6C7D7                    1930+FGPCON   DC    C'FGP' .            IDENTIFIER FOR FOREGROUND PHASE        10800028
0015B7 00
0015B8 00001EE8                  1931+AHQTAB   DC    A(HQTABS) .         ADRESS OF HEAD QUEUE TABLE   @DM01647  10802028
0015BC 00001F54                  1932+HQTABEND DC    A(HQTABE) .         END ADR.OF HEAD QUEUE TABLE  @DM01647  10804028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            015BF  1933+HQTRTAB  EQU   *-1 .                                                 @DM01647 10804428
0015C0 18                          1934+         DC    AL1(HQSNS-HQTABS)  DISPLACEMENT TO SNS ENTRY    @D34SDAP 10804934
0015C1 24                          1935+         DC    AL1(HQDSK-HQTABS)  DISPLACEMENT TO DSK ENTRY    @D34SDAP 10805434
0015C2 30                          1936+         DC    AL1(HQRAS-HQTABS)  DISPLACEMENT TO RAS ENTRY    @DM01647 10806028
0015C3 48                          1937+         DC    AL1(HQPMR-HQTABS)  DISPLACEMENT TO PMR ENTRY    @DA00354 10806430
0015C4 78                          1938+         DC    AL1(HQNOP-HQTABS)  DISPLACEMENT TO DUMMY ENTRY  @D34SDAP 10806934
0015C5 78                          1939+         DC    AL1(HQNOP-HQTABS)  DISPLACEMENT TO PGN ENTRY    @D34SDAP 10807434
0015C6 60                          1940+         DC    AL1(HQSUP-HQTABS)  DISPLACEMENT TO SUP ENTRY    @DM01647 10808028
0015C7 78                          1941+         DC    AL1(HQNOP-HQTABS)  DISPLACEMENT TO DUMMY ENTRY  @D34SDAP 10809034
0015C8 3C                          1942+         DC    AL1(HQCRT-HQTABS)  DISPLACEMENT TO CRT ENTRY    @DM01647 10810028
0015C9 78                          1943+         DC    AL1(HQASY-HQTABS)  DISPLACEMENT TO ASY ENTRY    @D34SDAP 10811034
0015CA 54                          1944+         DC    AL1(HQERP-HQTABS)  DISPLACEMENT TO ERP ENTRY    @DM01647 10812028
0015CB 78                          1945+         DC    AL1(HQNOP-HQTABS)  DISPLACEMENT TO DUMMY ENTRY  @D34SDAP 10817034
0015CC 78                          1946+         DC    AL1(HQNOP-HQTABS)  DISPLACEMENT TO DUMMY ENTRY  @D34SDAP 10822034
0015CD 78                          1947+         DC    AL1(HQNOP-HQTABS)  DISPLACEMENT TO DUMMY ENTRY  @D34SDAP 10827034
0015CE 6C                          1948+         DC    AL1(HQSVT-HQTABS)  DISPLACEMENT TO SVT ENTRY    @D34SDAP 10832034
                           015CE   1949+SPIBAR   EQU   *-1 .                BASE ADDR.TO USE WITH TASK ID-S    EM 11006028
                           015CF   1950+SNSFLG   EQU   *                    PIBFLAG OF SENSE TASK        @D34SDAP 11006634
                           015D0   1951+DSKFLG   EQU   SNSFLG+1             PIBFLAG OF DISK ERP TASK     @D34SDAP 11007234
                           015D1   1952+RASFLG   EQU   DSKFLG+1             PIBFLAG OF RAS TASK          @D34SDAP 11008034
                           015D2   1953+PMRFLG   EQU   RASFLG+1             PIBFLAG OF PAGE MANAGER TASK @D34SDAP 11008334
                           015D3   1954+RV1FLG   EQU   PMRFLG+1             PIBFLAG FOR RESERVED TASK    @D34SDAP 11008634
                           015D4   1955+PGNFLG   EQU   RV1FLG+1             PIBFLAG FOR PAGEIN TASK      @D34SDAP 11010034
                           015D5   1956+SUPFLG   EQU   PGNFLG+1             PIBFLAG OF SUPERVISOR TASK   @D34SDAP 11012034
                           015D6   1957+RV2FLG   EQU   SUPFLG+1             PIBFLAG FOR RESERVED  TASK   @D34SDAP 11012834
                           015D7   1958+CRTFLG   EQU   RV2FLG+1             PIBFLAG OF CRT TASK          @D34SDAP 11013634
                           015D8   1959+ASYFLG   EQU   CRTFLG+1             PIBFLAG OF ASYNCHR. OP.COMM. @D34SDAP 11014434
                           015D9   1960+ERPFLG   EQU   ASYFLG+1             PIBFLAG OF ERP TASK          @D34SDAP 11016034
                           015DA   1961+RV3FLG   EQU   ERPFLG+1             PIBFLAG FOR RESERVED TASK    @D34SDAP 11016234
                           015DB   1962+RV4FLG   EQU   RV3FLG+1             PIBFLAG FOR RESERVED TASK    @D34SDAP 11016434
                           015DC   1963+RV5FLG   EQU   RV4FLG+1             PIBFLAG FOR RESERVED TASK    @D34SDAP 11016634
                           015DD   1964+SVTFLG   EQU   RV5FLG+1             PIBFLAG OF SERVICE TASK      @D34SDAP 11030434
0015CF                             1965+TRTFLD   DS    0CL(17+15)           FIELD USED BY DISPATCHER     @D34SDAP 11030534
0015CF 8787878787878787            1966+         DC    15X'87'              INITIAL SYSTEM TASK PIB FLAG @D34SDAP 11035534
0015DE 0000000000000000            1967+TRFLD    DC    XL17'0'              FIELD TO OBTAIN USER PIBFLAG @D34SDAP 11036034

0015EF                             1969+TIDFLD   DS    0CL(15)              SYSTEM TASK IDENTIFIER VALUES@D34SDAP 11037034
0015EF 01                          1970+         DC    X'01'                SENSE TASK ID                @D34SDAP 11037534
0015F0 02                          1971+         DC    X'02'                DISK ERP TASK ID             @D34SDAP 11038034
0015F1 03                          1972+         DC    X'03'                RAS TASK ID                  @D34SDAP 11038534
0015F2 04                          1973+         DC    X'04'                PAGE MANAGER TASK ID         @D34SDAP 11039034
0015F3 05                          1974+         DC    X'05'                RESERVED ID                  @D34SDAP 11039534
0015F4 06                          1975+         DC    X'06'                PAGEIN TASK ID               @D34SDAP 11040034
0015F5 07                          1976+         DC    X'07'                SUPERVISOR TASK ID           @D34SDAP 11040534
0015F6 08                          1977+         DC    X'08'                RESERVED ID                  @D34SDAP 11041034
0015F7 09                          1978+         DC    X'09'                CRT TASK ID                  @D34SDAP 11041534
0015F8 0A                          1979+         DC    X'0A'                ASYNCH. OPER.-COMM. TASK ID  @D34SDAP 11042034
0015F9 0B                          1980+         DC    X'0B'                ERROR RECOVERY TASK ID       @D34SDAP 11042534
0015FA 0C                          1981+         DC    X'0C'                RESERVED ID                  @D34SDAP 11043034
0015FB 0D                          1982+         DC    X'0D'                RESERVED ID                  @D34SDAP 11043534
0015FC 0E                          1983+         DC    X'0E'                RESERVED ID                  @D34SDAP 11044034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0015FD 0F                        1984+         DC    X'0F'              SERVICE TASK ID              @D34SDAP 11044534
0015FE 005040203010              1985+MVCFLD   DC    X'005040203010'                                          11150028
001604 0000000000000000          1986+         DC    10X'00'  .         SUBTASK PIBS                      UL 11180028
00160E 00                        1987+         DC    X'00' .            DELIMITER OF MVCFLD                   11200028



                                 1989+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * BSW 11210128
                                 1990+*                                                                      BSW 11220128
                                 1991+*       ADDRESS OF RESOURCE USAGE RECORD TABLE ETC.                  @DF00913 11230128
                                 1992+*                                                                      BSW 11240128
                                 1993+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * BSW 11250128

00160F 00
001610 00012E58                  1995+ARURTAB  DC    A(RURTAB) .        ADDR OF RESOURCE USAGE RECORD TBL BSW 11250528
001614 00012E5C                  1996+AS2RUR   DC    A(S2RUR) .         ADDR OF 1ST TYPE 2 SYSTEM RUR@DF00913 11310528
001618 00012E84                  1997+ANRUR    DC    A(NRUR)            ADDRESS OF 1ST NAMED RUR     @D31DCAZ 11310731
00161C 00013338                  1998+AWAITL   DC    A(WAITLIST) .      ADDR OF WAITLIST             @DF00913 11310928



                                 2000+* ************* NEXT PSW MUST BE 16F IN FRONT OF FCHWRK1 ***   @DM06600 11440229
001620                           2001+         DS    0D                 ALIGNE                       @DM06600 11440429
001620 040C0000                  2002+FCHWORK  DC    X'040C0000'        FIRST PART OF PSW            @DM06600 11440629
001624 00000000                  2003+         DC    F'0'               SECOND PART OF PSW           @DM06600 11440829
                                 2004+* ************ THIS PSW REACHES UNTILL HERE  ************      @DM06600 11441029
001628                           2005+         DS    0F                 ALIGN TO FULL WORD           @DL29ZCJ 11490029
001628 FF0000FF                  2006+MAXVAL   DC    X'FF0000FF' .       USED BY TIMER PROCEDURE     @DA00046 11842528
00162C 00000100                  2007+MINVAL   DC    X'00000100' .       MINIMUM VALUE FOR TIMER     @DA00046 11843528
001630 00FF0000                  2008+JAMAXVAL DC    X'00FF0000' .     MAX VALUE USED FOR JOB ACCNT  @DA05609 11847532
001634 00005A10                  2009+ADIRBUFE DC    A(DIRBUFE-L7)     TEXT CCW UPPER BOUND          @DL29ZCJ 11880029
001638 00FFF800                  2010+TWOKMASK DC    X'00FFF800'       TWO K MASK                    @DL29ZCJ 11880429
00163C                           2011+SRCHNAME DS    CL8               SEARCH KEY ARGUMENT           @DL29ZCF 12250029
001644 005A17                    2012+ARLDBUFE DC    AL3(DIRBUFE)      ADDRESS OF END OF RLD BUFFER  @DL29ZCJ 12440029
001647 00
001648 00FFFFFC                  2013+ALIGNPTR DC    A(X'FFFFFC') .    ALIGN RLD POINTER ON FULLWRD BDRY LAV 12480028
00164C 0103070F                  2014+MASKCON  DC    X'0103070F'       MASK BYTES FOR ICM/STCM       @DL29ZCJ 12530029
                                 2015+*                                                                       12600028
001650 D9E9                      2016+RZ       DC    C'RZ' .           TO FETCH $$ABERRZ                      12640028
001652 C1C2                      2017+AB       DC    C'AB' .           USED TO FETCH $$ABERAB                SD 12720028
001654 C1F3                      2018+RMSWTR   DC    CL2'A3' .         SVC 44 RECORDER                       HL 12800028
001656 C1F5                      2019+RMSTPER  DC    CL2'A5' .         TPER RECORD WRITER                    HL 12840028
001658 D9D1                      2020+RMSSTAT1 DC    CL2'RJ' .         RMS COMMON STATISTIC UPDATE MODULE    HL 12880028
00165A C1C1                      2021+RMSSTAT2 DC    CL2'AA' .         RMS TAPE STATISTIC UPDATE MODULE      HL 12920028
00165C 00                        2022+PSWMASK  DC    X'00'             USED FOR STOSM/STNSM                IB3.5 13000028
                                 2023+* ************************************                          @DM06600 13000229
                                 2024+* NEXT AREA IS AT 16F OF THE FETCH PSW MENTIONED ABOVE        @DM06600 13001029
                                 2025+* THE INTERLEAVING AREA CAN BE USED FOR ANY OTHER REASON      @DM06600 13001729
00165D                    01668  2026+         ORG   FCHWORK+72     BETWEEN PSW AND NEXT AREA 16F   @DM06600 13002729
                                 2027+*                                                             @DM06600 13003729
                                 2028+*       THE FOLLOWING AREA IS RESERVED FOR FETCH TEMPORARY    @DM06600 13004729
                                 2029+*       STORAGE.  INDIVIDUAL FIELDS ARE DESCRIBED IN THE      @DM06600 13005729
                                 2030+*       SVEARA DSECT IN SEND.  FETCH USES FCHWORK STORAGE     @DM06600 13006729
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  2031+*        WHEN HANDLING SYSTEM REQUESTS,AND SAVE AREA STORAGE   @DM06600 13007729
                                  2032+*        WHEN HANDLING USER REQUESTS.                          @DM06600 13008729
                                  2033+*                                                              @DM06600 13009729
001668                            2034+FCHWRK1  DS    XL(56+1*9+4*(1-1*1+1+0-1*0+1))                      C13010734
                                                                                                        @DY16009 13011034
                                  2035+*                                                              @DM06600 13011729
0016B4                            2036+         DS    0F .                FORCE FULLWORD ALIGNMENT          160 13040028
0016B4 0000                       2037+TXTCCB   DC    H'0' .              CCB FOR FETCH                     416 13080028
0016B6 0004                       2038+         DC    H'4' .              RETRY ON NRF                      416 13082528
0016B8 0000                       2039+         DC    H'0' .                                                416 13085028
0016BA 00                         2040+         DC    X'00' .             SYMBOLIC UNIT ADDRESS              GS 13160028
0016BB 06                         2041+CILTYPE  DC    X'06' .             SYMBOLIC UNIT ADDRESS              GS 13200028
                                  2042+*                                  MODIFIED BY FETCH ROUTINE          GS 13240028
0016BC 00001760                   2043+TXTCCBSK DC    A(SEEKCCW) .        ADDRESS OF FETCH CCW STRING @DL29ZCJ  13440029
0016C0 00000000                   2044+NEXTCCW  DC    F'0' .              NEXT CCW ADDRESS TO BE EXECUTED       13480028
0016C4 000000F0                   2045+ISKMASK  DC    X'000000F0' .       FIELD TO RESET BITS(VALIDADDR)     EM 13520028
0016C8 0000000F                   2046+SYSTMASK DC    X'0000000F' .       FIELD TO RESET BITS                EM 13530028
0016CC 0000                       2047+BBCCHHR  DC    H'0' .              BB FOR FETCH                      LAV 13600028
0016CE 00                         2048+CCHHR    DC    X'00' .             C FOR FETCH                           13640028
0016CF 00                         2049+CHHR     DC    X'00' .             C FOR FETCH                           13680028
0016D0 00                         2050+HHR      DC    X'00' .             H FOR FETCH                   @DL29ZCJ 13720029
0016D1 00                         2051+HR       DC    X'00' .             H FOR FETCH                   @DL29ZCJ 13760029
0016D2 00                         2052+R        DC    X'00'               R FOR FETCH                   @DL29ZCJ 13770029
0016D3 0000000000                 2053+CCHHR2   DC    XL5'0'              READ COUNT FIELD              @DA00398 13770430
0016D8 00                         2054+SECTAREA DC    X'00'               SET SECT VALUE                @DL30SSM 13774030
0016D9 00
0016DA 0001                       2055+H1       DC    H'1' .                                                EM 13780028
0016DC 0800                       2056+H2048    DC    H'2048' .           FOR CCW-TRANSLATION               EM 13800428
0016E0                            2057+         DS    0F                  FORCE FULLWORD ALIGNMENT  @DM09651 13800830
0016E0 000007FF                   2058+CLEARMSK DC    X'000007FF' .       CLEAR MASK FOR GETDADR            EM 13801428
0016E4 0000000000000000           2059+SAVER4   DC    3F'0' .             SAVE AREA FOR R4,R5,R6 IN GETDADR EM 13801628
                            016E4 2060+TEMP2CHN EQU   SAVER4 .            TEMP.SAVE AREA FOR CHAN.QU.INFORM. EM 13802028
                            016E4 2061+BTSAV    EQU   SAVER4 .            SAVE AREA FOR REG1 AND CCW ADDR.   EM 13804028
0016F0 0000000000000000           2062+SAVER8   DC    2F'0' .             SAVEAREA FOR R 8,9,E WHEN  @DM01266 13806028
0016F8 00000000                   2063+SAVERE   DC    F'0' .              GETDADR BRANCHES TO VIRTAD @DM01266 13806528
0016FC 00000000                   2064+SVC12SAV DC    F'0'                WORKFIELD FOR SVC12 / 13   @DM01452 13809528
001700                            2065+SEARCHFL DS    0CL5 .              WORKFIELD                        JAB 13825028
001700                            2066+         DS    CL4 .               * FOR                            UER 13835028
001704                            2067+RECNO    DS    CL1 .               * SYSFIL                         UER 13837028
001705 0000000000000000           2068+SVC44FLD DC    XL16'0'                                               EM 13839428
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  2070+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 20088430
                                  2071+*                                                                          * 20118030
                                  2072+*       SYSTEM TASK BLOCKS.                                                * 20147630
                                  2073+*                                                                          * 20177230
                                  2074+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 20206830

001718                            2076+         DS    0F .                                                    EM 20266030
                            01710 2077+SYSBLK0  EQU   *-8 .             SYSTEM TASK BLOCKS                    EM 20295630
001718 15CF                       2078+SNSBLOCK DC    Y(SNSFLG)         SELECT MASK FOR SENSE TASK   @D34SDAP 20297634
00171A 00                         2079+SNSPIK   DC    X'00'             PIK OF SERVICED USER TASK    @D34SDAP 20299634
00171B 00                         2080+         DC    X'00'             RESERVED                     @D34SDAP 20301634
00171C 00011FA8                   2081+         DC    A(SNSSAVAR)       SNS SAVE AREA ADDRESS        @D34SDAP 20303634

001720 15D0                       2083+DSKBLOCK DC    Y(DSKFLG)         SELECT MASK FOR DISK ERP TASK@D34SDAP 20307634
001722 00                         2084+DSKPIK   DC    X'00'             PIK OF SERVICED USER TASK    @D34SDAP 20309634
001723 00                         2085+         DC    X'00'             RESERVED                     @D34SDAP 20311634
001724 00011FF0                   2086+         DC    A(DSKSAVAR)       DISK ERP SAVE AREA ADDRESS   @D34SDAP 20313634

001728 15D1                       2088+RASBLOCK DC    Y(RASFLG) .       SELECT MASK FOR RAS                   HL 20325230
00172A 00                         2089+RASPIK   DC    X'00' .           PIK OF SERVICED USER TASK             HL 20354830
00172B 00                         2090+         DC    X'00' .           RESERVED                                 20384430
00172C 00012038                   2091+         DC    A(RASSAVAR) .     RAS SAVE AREA ADDRESS                 HL 20443630

001730 15D2                       2093+PMRBLOCK DC    Y(PMRFLG) .       PTR.TO PAGE MANAGER PIBFLAG           EM 20621230
001732 00                         2094+PMRPIK   DC    X'00' .           PIK OF SERVICED USER TASK             EM 20650830
001733 00                         2095+         DC    X'00' .           RESERVED                              EM 20680430
001734 00012080                   2096+         DC    A(PMRSAVAR) .     PMGR SAVE AREA                        EM 20710030

001738 15D4                       2098+PGNBLOCK DC    Y(PGNFLG) .       POINTER TO PAGEIN PIBFLAG    @D34SDAP 20722034
00173A 00                         2099+PGNPIK   DC    X'00' .           TIK OF SERVICED USER TASK    @D34SDAP 20724034
00173B 00                         2100+         DC    X'00' .           RESERVED                     @D34SDAP 20726034
00173C 000120C8                   2101+         DC    A(PGNSAVAR) .     PAGEIN SAVEAREA ADDR         @D34SDAP 20728034

001740 15D5                       2103+SUPBLOCK DC    Y(SUPFLG) .       POINTER TO SUPERVISOR PIBFLAG         EM 20769230
001742 00                         2104+SUPPIK   DC    X'00' .           PIK OF SERVICED USER TASK             EM 20798830
001743 00                         2105+         DC    X'00' .           RESERVED                              EM 20828430
001744 00012158                   2106+         DC    A(SUPSAVAR) .     SUPERVISOR SAVE AREA ADDRESS          RH 20858030

001748 15D7                       2108+CRTBLOCK DC    Y(CRTFLG) .       POINTER TO CRT PIBFLAG                AP 20946830
00174A 00                         2109+CRTPIK   DC    X'00' .           PIK OF SERVICED USER TASK             AP 20976434
00174B 00                         2110+         DC    X'00' .           RESERVED                              AP 21006030
00174C 00012280                   2111+         DC    A(CRTSAVAR) .     CRT SAVE AREA ADDR                    AP 21035630

001750 15D9                       2113+ERPBLOCK DC    Y(ERPFLG) .       POINTER TO ERP PIBFLAG                EM 21124430
001752 00                         2114+ERPPIK   DC    X'00' .           PIK OF SERVICED USER TASK             RH 21154030
001753 00                         2115+         DC    X'00' .           RESERVED                              EM 21183630
001754 00012110                   2116+         DC    A(ERPSAVAR) .     ERP SAVE AREA ADDRESS                 RH 21213230

001758 15DD                       2118+SVTBLOCK DC    Y(SVTFLG)         POINTER TO SVT PIBFLAG       @D34SDAP 21224234
00175A 00                         2119+SVTPIK   DC    X'00'             PIK OF SERVICED USER TASK    @D34SDAP 21225234
00175B 00                         2120+         DC    X'00'             RESERVED                     @D34SDAP 21226234
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
00175C 000121A0                   2121+         DC    A(SVTSAVAR)        SERVICE TASK SAVE AREA ADDR. @D34SDAP 21227234
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  2123+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 21450028
                                  2124+*        CCW STRINGS                                                       * 21460028
                                  2125+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 21462028

001760 070016CC40000006           2127+SEEKCCW  CCW   SEEK,BBCCHHR,CC,L6 SEEK FOR FETCH                           21480028
001768 230016D840000001           2128+RPSCCW2  CCW   SETSECT,SECTAREA,CC,L1 SET SECTOR                @DL30SSM 21500030
001770 310016CE60000005           2129+SRCHCCW  CCW   SEARCH,CCHHR,CC+SLI,L5 SEARCH FOR FETCH          @DL29ZCF 21520029
001778 0800177000000000           2130+TICCCW1  CCW   TIC,SRCHCCW,R0,R0 .TIC FOR FETCH                       21560028
001780                      0177E 2131+         ORG   TICCCW1+6                                           @DL29ZCJ 21610029
00177E 0400                       2132+DEVCEND  DC    X'0400'           DEVICE END ONLY                 @DL29ZCJ 21660029
001780 080017E000000000           2133+TICCCW2  CCW   TIC,RDCCW,R0,R0 .  TIC TO NEXT READ TO BE EXECUTED       21720028
001788                      01784 2134+         ORG   TICCCW2+4 .       SAVE 4 BYTES                          21760028
001784 0C00                       2135+CENDDEND DC    X'0C00' .         CHANNEL AND DEVICE END ONLY           21800028
001786 0800                       2136+CHANNEND DC    X'0800' .         CHANNEL END ONLY                      21840028

001788 070016CC40000006           2138+SEEKCCW1 CCW   SEEK,BBCCHHR,CC,L6 SEEK FOR FETCH DIRECTORY    @DL29ZCJ 21900029
001790 030016CE40000004           2139+FTCHNOP1 CCW   NOOP,CCHHR,CC,L4   MODIFIED BY PHNFND           @DA04246 21910032
001798 0300179040000001           2140+FTCHNOP2 CCW   NOOP,FTCHNOP1,CC,L1  MODIFIED BY PHNFND         @DA04246 21920032
0017A0 6900163C60000008           2141+         CCW   SCHKHE,SRCHNAME,CC+SLI,L8  SRCH KEY EQUAL OR HI @DL29ZCJ 21950029
                                  2142+*                                    FOR PHASENAME           @DL29ZCJ 22000029
0017A8 080017C000000000           2143+         CCW   TIC,SKHEMT,R0,R0   TIC TO CONTINUE SEARCH       @DL29ZCJ 22050029
0017B0 230016D840000001           2144+RPSCCW1  CCW   SETSECT,SECTAREA,CC,L1 SET SECTOR                @DL30SSM 22054030
0017B8 1A0017B850000005           2145+RDHOMAD  CCW   RDHOM,*,CC+SKIP,L5  POSITION TO TRACK START     @DY15773 22060034
0017C0 E900163C60000008           2146+SKHEMT   CCW   SCHKHEMT,SRCHNAME,CC+SLI,L8 SEARCH MULTITRACK  @DL29ZCJ 22070029
0017C8 080017C000000000           2147+         CCW   TIC,SKHEMT,R0,R0   TIC TO CONTINUE SEARCH       @DL29ZCJ 22080029
0017D0 080017D800000000           2148+TICCCW3  CCW   TIC,DIRREAD,R0,R0  TIC TO READ DIRECTORY BLOCK  @DL29ZCJ 22090029

0017D8 8600561820000100           2150+DIRREAD  CCW   READDATA,DIRBUF,SLI,DIRBLOCK   READ DIR. BLOCK  @DL29ZCJ 22094029

0017E0 8600561860000400           2152+RDCCW    CCW   READDATA,DIRBUF,CC+SLI,TXTBLOCK   TEXT READ     @DL29ZCJ 22120029
0017E8 080017F000000000           2153+RPSTIC   CCW   TIC,CNTCCW,R0,R0   TIC TO RD COUNT                 @DL30SSM 22140030
0017F0 920016D320000005           2154+CNTCCW   CCW   READCNT,CCHHR2,SLI,L5 READ COUNT OF NEXT RECORD  @DA00398 22160030
                            017E6 2155+BLOKSIZE EQU   RDCCW+6 .           BLOCKSIZE FOR CIL TEXT        @DL29ZCJ 22200029
0017F8 220016D800000001           2156+RDSCT    CCW   RDSECT,SECTAREA,R0,L1 READ SECTOR                 @DL30SSM 22260030
001800 08                         2157+RPSTIC1  DC    X'08'             TIC OP CODE                   @DL30SSM 22270030
001801 0017B8                     2158+         DC    AL3(RDHOMAD)      TIC TO READ HOME ADDRESS      @DL30SSM 22280030
001804 08                         2159+RPSTIC2  DC    X'08'             TIC OP CODE                   @DL30SSM 22282030
001805 001770                     2160+         DC    AL3(SRCHCCW)      TIC TO SEARCH ID CCW          @DL30SSM 22284030
001808 23                         2161+RPSSSECT DC    X'23'             SET SECTOR OP CODE            @DL30SSM 22284430
001809 0016D8                     2162+         DC    AL3(SECTAREA)     ADDRESS OF SECTOR VALUE       @DL30SSM 22284830

                                  2164+*        THESE CCW'S ARE USED TO READ THE DIRECTORY INTO THE           22290034
                                  2165+*        C-TRANSIENT AREA WHEN C-TRANSIENTS ARE TO BE FETCHED          22291034

00180C 00000000
001810 86004C0860000100           2167+CRTDIR   CCW   READDATA,CRTTRNS,CC+SLI,DIRBLOCK DIRECTORY READ      AS 22300028
001818 86004D0860000100           2168+         CCW   READDATA,CRTTRNS+DIRBLOCK,CC+SLI,DIRBLOCK SECOND BLK  AS 22305028
001820 920016D320000005           2169+CRTHOOKF CCW   READCNT,CCHHR2,SLI,L5 DIRECTORY READ COUNT      @DA00398 22318030

001828 5B5BC2D6                   2171+OPEN     DC    C'$$BO' .         OPEN PHASE IDENTIFIER                 23040028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00182C 00000000
001830 9300183060000001            2173+TAPECCW1 CCW   STMODE,TAPECCW1,CC+SLI,L1 MODE SET CCW                  23160028
001838 0800183860000001            2174+TAPECCW2 CCW   TIC,TAPECCW2,CC+SLI,L1 TIE OR TIC CCW               DT84 23200028
001840 0800184000000000            2175+TAPECCW3 CCW   TIC,TAPECCW3,R0,R0 ERP CCW AREA                         23280028
001848 0300184000000001            2176+         CCW   NOP,TAPECCW3,R0,L1 CCW FOR REPOSITION               DT84 23360028

001850 010015AA60000003            2178+LOGCCW   CCW   WRITE,IDOUT,CC+SLI,3      SYSLOG PREFIX         @D34ADAP 23520034
001858 0800185800000000            2179+LOGTIC   CCW   TIC,*,R0,R0 .      TIC TO USER CHAIN                    23560028
001860                      0185C  2180+         ORG   LOGTIC+4 .         SAVE 4 BYTES                         23600028

00185C 01000001                    2182+CIDAR    DC    X'01000001' .      START OF MAIN DIRECTORY FOR 2311      23680028
001860 0000                        2183+TWTIMS   DC    H'0' .             KEY OF TASK ISSUED SETIME          EM 23700028


                                   2185+*********************************************************************** 23880028
                                   2186+*        AP FIELDS AND CONSTANTS                                     * 23920028
                                   2187+*********************************************************************** 23960028

                                   2189+* NEXT FIELD INDICATES WHICH PIBS ARE AVAILABLE FOR SUBTASKS           24002028

001862 0000000000000607            2191+TIDTRT   DC    X'000000000000060708090A0B0C0D0E0F'                    *24060028
                                                                .                                          UL 24070028

001872 00                          2193+ERRSET1  DC    X'00' .            TEMPORARILY STORE FOR CANCELCODE      24240028
001873 00                          2194+ERRSET2  DC    X'00' .            USED FOR DUMP SWITCH                  24280028
001874 5B5BC2C4E4D4D740            2195+BDUMP    DC    C'$$BDUMP ' .      DUMP FETCHED IN SVC2 ROUTN?  @DA08681 24500033
00187C 5B5BC2D1C4E4D4D7            2196+JDUMP    DC    C'$$BJDUMP'                                     @DA09069 24505034

                                   2198+*******        CONSOLE BUFFER AND CONSTANTS USED BY CBF ROUTINE     LAV 25000028


001884 D200 8018 2000 00018 00000  2200+CBMVC    MVC   CBDATA-CB(L0,R8),0(R2) MOVE DATA IN CONSOLE BUFFER   LAV 25080028
00188A 0050                        2201+CBMAX    DC    X'0050' .          MAXIMUM LENGTH OF BUFFERED DATA   LAV 25120028
00188C 00013498                    2202+CBNEXT   DC    A(CBTAB) .         FIRST ENTRY IN CONSOLE BUFFER     LAV 25160028
001890 000137D8                    2203+CBEND    DC    A(CBTAB+8*104)     COMPARE VALUE FOR END OF BUFFER   LAV 25200028
001894 00013498                    2204+CBTABAD  DC    A(CBTAB) .         POINTER TO CB TABLE                   25240028


001898                             2206+         CNOP  0,4 .              FORCE ALIGNMENT                    US 25281428
                            01898  2207+CRTTAB   EQU   * .                CRT-CONSTANTS USED BY SUPVR        US 25281528
                                   2208+* DISPLAY OPERATOR CONSOLE SUPPORT - CRTGEN - 5745-SC-DOC - REL.28.0    00170028
001898 5B5BC2D6C3D9E3              2209+CRTNAME  DC    C'$$BOCRT' .       0  NAME OF CRT-ROUTN                  00200028
00189F C1                          2210+SVCCHAR  DC    C'A' .             7  FETCH CHARACTER                    00250028
                            0189F  2211+CRTID    EQU   SVCCHAR                                                  00252028

0018A0                             2213+CRTNAM1  DS    0C .               8  SAVE FOR NAME INDICATOR            00300028
                            018A0  2214+SENSEBT  EQU   CRTNAM1 .             DUMMY SENSE BYTE FOR CRT DEVICE    00350028
0018A0 000121F0                    2215+ACRTSAV  DC    A(CRTSAV) .        8  ADDR OF C-TRANSIENT SAVE AREA      00370028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0018A4 00004C08                  2217+ACRTTRNS DC    A(CRTTRNS) .       12 ADDR OF C-TRANSIENT AREA           00500028
0018A8                    018A4  2218+         ORG   ACRTTRNS              SAVE 1 BYTE                      00750028
0018A4 00                        2219+CRTFLG1  DC    X'00' .            12 FLAGBYTE 1 - SET TO ZERO BY DOCA  00800028
                          00080  2220+CRTERPBT EQU   X'80' .               INDIC ERP MESSAGE                  00850028
                          00040  2221+CRTUNITC EQU   X'40' .               INDIC UNITCHECK FOR CRT            00900028
                          00020  2222+CRTFETCH EQU   X'20' .               INDIC CRT FETCH BOUND     @DF02772 00950028
                          00010  2223+CRTATTH  EQU   X'10' .               INDIC ATT SIMULATES DE             01000028
                          00008  2224+CRTERADR EQU   X'08' .               INDIC VALIDATION ERROR             01050028
                          00004  2225+CRTREDSP EQU   X'04' .               INDIC REDIPLY MODE                 01100028
                          00002  2226+CRTERR   EQU   X'02' .               INDIC ANY ERROR ON CRT             01150028

0018A5                    018A8  2228+         ORG                                                          01250028
0018A8 00012238                  2229+ASYSTSV  DC    A(SYSTEMSV) .      16 ADDR OF C-TRANSIENT SAVE AREA     01350028
0018AC                    018A8  2230+         ORG   ASYSTSV              SAVE 1 BYTE                      01600028
0018A8 00                        2231+CRTFLG2  DC    X'00' .            16 FLAGBYTE 2                        01650028
                          00080  2232+CRTBUSY  EQU   X'80' .               INDIC CRT BUSY                     01700028
                          00040  2233+CRTSENS  EQU   X'40' .               INDIC SENSE BYTE PREPARED          01750028
                          00020  2234+CRTEOJ   EQU   X'20' .               INDIC END OF CRT ROUT              01800028
                          00010  2235+CRTDATRD EQU   X'10' .               INDIC DATA DLREADY READ            01850028
                          00008  2236+CRTATTPD EQU   X'08' .               INDIC ATT PENDING                  01900028
                          00004  2237+CRTRQPD  EQU   X'04' .               INDIC REQ PENDING                  01950028
                          00002  2238+CRTATTRQ EQU   X'02' .               INDIC ATT REQUEST                  02000028
                          00001  2239+CRTEOJ0  EQU   X'01' .               INDIC EOJ ON CRT                   02010028
0018A9                    018AC  2240+         ORG                                                          02050028
0018AC 0000000000000000          2241+CRTEINF  DC    XL8'00' .             CRT ERROR INFORMATION     @DM02299 02060028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  2243+*************************************************************** 25960028
                                  2244+*       UP TILL THIS POINT ALL CODING SHOULD BE DIRECTLY ADDRESSABLE * 26000028
                                  2245+*       WITH THE STANDARD SET OF BASE REGISTERS.                   * 26040028
                                  2246+*       BEYOND THIS POINT NO LABEL MAY BE REFERENCED DIRECTLY.     * 26080028
                                  2247+*       TO REFER TO THIS AREA,USE LOW CORE ADDRESS POINTERS.       * 26120028
                                  2248+*************************************************************** 26160028
                                  2249+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 26682528
                                  2250+*                                                               * 26685028
                                  2251+*       PROGRAM INFORMATION BLOCK EXTENSION.                    * 26687528
                                  2252+*                                                               * 26690028
                                  2253+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 26692528

0018B4                            2255+        DS    0F                ALIGN                    @DA09594 26720033
0018B4                            2256+PIB2TAB DS    0CL16             PIB EXTENSION            @DA09594 26730033

0018B4 0650                       2258+        DC    AL2(BGCOMREG-SYSS00)  ADDRESS OF COMMUNICATION REGION   X26800028
                                                                                                 @DM01207  26810028
0018B6 0000                       2259+        DC    H'0' .            AR SYSTEM LUB INDEX                  26840028
0018B8 00000000                   2260+        DC    F'0' .            USED FOR INTERRUPTION CODE           26880028
0018BC 00000000                   2261+        DC    F'0' .            ZERO                              AP 27400028
0018C0 0000                       2262+        DC    X'0000' .         AR PIK                               27440028
0018C2 0000                       2263+        DC    H'0' .            RESERVED                          AP 27480028


                                  2266+*   CONTINUATION OF PARTITION PIB                                 RS 27660028

0018C4 0650                       2268+        DC    AL2(BGCOMREG-SYSS00)     COMMUNICATIONS REGION ADDRESS X27720028
                                                                                                 @DM01207  27722028
0018C6 0000                       2269+        DC    Y(14*0+0)         .      SYSTEM LUB INDEX          RS 27730034
0018C8 00000000                   2270+        DC    F'0' .            USED FOR INTERRUPTION CODE        RS 27750028
0018CC 00000000                   2271+        DC    F'0' .            ZERO                              UL 27755028
0018D0 0010                       2272+        DC    X'0010' .         PARTITION PIK                     UL 27760028
0018D2 0000                       2273+        DC    H'0' .            RESERVED                          UL 27770028

                                  2275+*   CONTINUATION OF PARTITION PIB                                 RS 27660028

0018D4 2A68                       2277+        DC    AL2(F4COMREG-SYSS00)     COMMUNICATIONS REGION ADDRESS X27720028
                                                                                                 @DM01207  27722028
0018D6 0036                       2278+        DC    Y(14*1+40)        .      SYSTEM LUB INDEX          RS 27730034
0018D8 00000000                   2279+        DC    F'0' .            USED FOR INTERRUPTION CODE        RS 27750028
0018DC 00000000                   2280+        DC    F'0' .            ZERO                              UL 27755028
0018E0 0020                       2281+        DC    X'0020' .         PARTITION PIK                     UL 27760028
0018E2 0000                       2282+        DC    H'0' .            RESERVED                          UL 27770028

                                  2284+*   CONTINUATION OF PARTITION PIB                                 RS 27660028

0018E4 29C0                       2286+        DC    AL2(F3COMREG-SYSS00)     COMMUNICATIONS REGION ADDRESS X27720028
                                                                                                 @DM01207  27722028
0018E6 0076                       2287+        DC    Y(14*2+90)        .      SYSTEM LUB INDEX          RS 27730034
0018E8 00000000                   2288+        DC    F'0' .            USED FOR INTERRUPTION CODE        RS 27750028
0018EC 00000000                   2289+        DC    F'0' .            ZERO                              UL 27755028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                           DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0018F0 0030                        2290+          DC    X'0030' .           PARTITION PIK                           UL 27760028
0018F2 0000                        2291+          DC    H'0' .              RESERVED                                UL 27770028

                                   2293+*   CONTINUATION OF PARTITION PIB                                           RS 27660028

0018F4 2918                        2295+          DC    AL2(F2COMREG-SYSS00)      COMMUNICATIONS REGION ADDRESS X27720028
                                                                                                       @DM01207  27722028
0018F6 00A7                        2296+          DC    Y(14*3+125)         .       SYSTEM LUB INDEX                RS 27730034
0018F8 00000000                    2297+          DC    F'0' .              USED FOR INTERRUPTION CODE              RS 27750028
0018FC 00000000                    2298+          DC    F'0' .              ZERO                                    UL 27755028
001900 0040                        2299+          DC    X'0040' .           PARTITION PIK                           UL 27760028
001902 0000                        2300+          DC    H'0' .              RESERVED                                UL 27770028

                                   2302+*   CONTINUATION OF PARTITION PIB                                           RS 27660028

001904 2870                        2304+          DC    AL2(F1COMREG-SYSS00)      COMMUNICATIONS REGION ADDRESS X27720028
                                                                                                       @DM01207  27722028
001906 00F0                        2305+          DC    Y(14*4+184)         .       SYSTEM LUB INDEX                RS 27730034
001908 00000000                    2306+          DC    F'0' .              USED FOR INTERRUPTION CODE              RS 27750028
00190C 00000000                    2307+          DC    F'0' .              ZERO                                    UL 27755028
001910 0050                        2308+          DC    X'0050' .           PARTITION PIK                           UL 27760028
001912 0000                        2309+          DC    H'0' .              RESERVED                                UL 27770028



001914 0000000000000000            2312+          DC    10XL16'0'  .         SUBTASK PIB EXTENSIONS                 UL 29000028


                                   2314+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 29042528
                                   2315+*                                                                          * 29045028
                                   2316+*         PROGRAM INFORMATION BLOCK.                                       * 29047528
                                   2317+*                                                                          * 29050028
                                   2318+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 29052528

0019B4                             2320+PIBTAB   DS    0F .                PIB TABLE                                  29080028

0019B4 80                          2322+          DC    X'80' .             PIBFLAG                                463 29160028
0019B5 00                          2323+          DC    X'00' .             CANCEL CODE                                29200028
0019B6 C1D9                        2324+          DC    C'AR' .             SYSLOG IDENTIFIER                          29240028
0019B8 00000000                    2325+          DC    F'0' .              USED BY TASK SELECTION                 112 29280028
0019BC 000105A0                    2326+          DC    A(LTASAVE) .        ADDRESS OF LTA SAVE AREA               463 29360028
0019C0 00                          2327+          DC    X'00' .             PIB ASSIGN FLAG MASK                    UL 29400028
0019C1 0E                          2328+          DC    AL1(14)   .         USER LUB INDEX                             29440028
0019C2 28                          2329+          DC    AL1(40)        .          NUMBER OF USER LUBS               RS 29480028
0019C3 80                          2330+          DC    X'80' .             MORE FLAGS                                 29520028

0019C4 83                          2332+          DC    X'83' .             PIBFLAG                                    29600028
0019C5 00                          2333+          DC    X'00' .             CANCEL CODE                                29640028
0019C6 C2C7                        2334+          DC    C'BG' .             SYSLOG IDENTIFIER                          29680028
0019C8 00021000                    2335+          DC    A(PPBEGIN)          BG SAVE AREA ADDRESS             @DM11453 29720031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0019CC 00                        2336+         DC    AL1(0) .            GATE IDENTIFIER                    EM 29760028
0019CD 010610                    2337+         DC    AL3(SAV2P1) .       POINTER TO SYSTEM SAVE AREA        EM 29800028
0019D0 00                        2338+         DC    X'00' .             PIB ASSIGN FLAG MASK               UL 29840028
0019D1 0E                        2339+         DC    AL1(14)   .         USER LUB INDEX                        29880028
0019D2 28                        2340+         DC    AL1(40)       .           NUMBER OF USER LUBS          RS 29920028
0019D3 80                        2341+         DC    X'80' .             MORE FLAGS                      128-70 29960028

                                 2343+*   FG PARTITION PIB                                                   RS 30040028

0019D4 80                        2345+         DC    X'80' .             PIBFLAG                            RS 30056028
0019D5 00                        2346+         DC    X'00' .             CANCEL CODE                        RS 30064028
0019D6 C6F4                      2347+         DC    C'F4'     .             SYSLOG ID                      RS 30072028
0019D8 80                        2348+         DC    X'80' .             SET ON TRAM FLAG                   EM 30073028
0019D9 007000                    2349+         DC    AL3(28672)          FG SAVE AREA ADDRESS               EM 30080028
0019DC 00                        2350+         DC    AL1(0) .            GATE IDENTIFIER                    EM 30088028
0019DD 0106E0                    2351+         DC    AL3(SAV2P2)  .      POINTER TO SYSTEM SAVE AREA        EM 30096028
0019E0 00                        2352+         DC    X'00' .             PUB ASSIGN FLAG MASK               RS 30104028
0019E1 44                        2353+         DC    AL1(14*2+40)          .    USER LUB INDEX              RS 30112028
0019E2 32                        2354+         DC    AL1(50)       .           NUMBER OF PGR LUBS           RS 30128028
0019E3 00                        2355+         DC    X'00' .             MORE FLAGS                         RS 30136028

                                 2357+*   FG PARTITION PIB                                                   RS 30040028

0019E4 80                        2359+         DC    X'80' .             PIBFLAG                            RS 30056028
0019E5 00                        2360+         DC    X'00' .             CANCEL CODE                        RS 30064028
0019E6 C6F3                      2361+         DC    C'F3'     .             SYSLOG ID                      RS 30072028
0019E8 80                        2362+         DC    X'80' .             SET ON TRAM FLAG                   EM 30073028
0019E9 007800                    2363+         DC    AL3(30720)          FG SAVE AREA ADDRESS               EM 30080028
0019EC 00                        2364+         DC    AL1(0) .            GATE IDENTIFIER                    EM 30088028
0019ED 0107B0                    2365+         DC    AL3(SAV2P3)  .      POINTER TO SYSTEM SAVE AREA        EM 30096028
0019F0 00                        2366+         DC    X'00' .             PUB ASSIGN FLAG MASK               RS 30104028
0019F1 84                        2367+         DC    AL1(14*3+90)          .    USER LUB INDEX              RS 30112028
0019F2 23                        2368+         DC    AL1(35)       .           NUMBER OF PGR LUBS           RS 30128028
0019F3 00                        2369+         DC    X'00' .             MORE FLAGS                         RS 30136028

                                 2371+*   FG PARTITION PIB                                                   RS 30040028

0019F4 80                        2373+         DC    X'80' .             PIBFLAG                            RS 30056028
0019F5 00                        2374+         DC    X'00' .             CANCEL CODE                        RS 30064028
0019F6 C6F2                      2375+         DC    C'F2'     .             SYSLOG ID                      RS 30072028
0019F8 80                        2376+         DC    X'80' .             SET ON TRAM FLAG                   EM 30073028
0019F9 008000                    2377+         DC    AL3(32768)          FG SAVE AREA ADDRESS               EM 30080028
0019FC 00                        2378+         DC    AL1(0) .            GATE IDENTIFIER                    EM 30088028
0019FD 010880                    2379+         DC    AL3(SAV2P4)  .      POINTER TO SYSTEM SAVE AREA        EM 30096028
001A00 00                        2380+         DC    X'00' .             PUB ASSIGN FLAG MASK               RS 30104028
001A01 B5                        2381+         DC    AL1(14*4+125)         .    USER LUB INDEX              RS 30112028
001A02 3B                        2382+         DC    AL1(59)       .           NUMBER OF PGR LUBS           RS 30128028
001A03 00                        2383+         DC    X'00' .             MORE FLAGS                         RS 30136028

                                 2385+*   FG PARTITION PIB                                                   RS 30040028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001A04 80                          2387+         DC    X'80' .            PIBFLAG                              RS 30056028
001A05 00                          2388+         DC    X'00' .            CANCEL CODE                          RS 30064028
001A06 C6F1                        2389+         DC    C'F1'     .            SYSLOG ID                         RS 30072028
001A08 80                          2390+         DC    X'80' .            SET ON TRAM FLAG                     EM 30073028
001A09 008800                      2391+         DC    AL3(34816)         FG SAVE AREA ADDRESS                 EM 30080028
001A0C 00                          2392+         DC    AL1(0) .           GATE IDENTIFIER                      EM 30088028
001A0D 010950                      2393+         DC    AL3(SAV2P5)  .     POINTER TO SYSTEM SAVE AREA          EM 30096028
001A10 00                          2394+         DC    X'00' .            PUB ASSIGN FLAG MASK                 RS 30104028
001A11 FE                          2395+         DC    AL1(14*5+184)       .    USER LUB INDEX                RS 30112028
001A12 11                          2396+         DC    AL1(17)          .          NUMBER OF PGR LUBS           RS 30128028
001A13 00                          2397+         DC    X'00' .            MORE FLAGS                           RS 30136028


001A14 8000000000000000            2399+         DC    XL9'800000000000000000' .                               EM 31030028
001A1D 010A20                      2400+         DC    AL3(SAV2P6)  .     ADDRESS OF USER SYST.SAVE AERA       EM 31040028
001A20 00000000                    2401+         DC    XL4'00000000' .                                         EM 31050028


001A24 8000000000000000            2403+         DC    XL9'800000000000000000' .                               EM 31030028
001A2D 010AF0                      2404+         DC    AL3(SAV2P7)  .     ADDRESS OF USER SYST.SAVE AERA       EM 31040028
001A30 00000000                    2405+         DC    XL4'00000000' .                                         EM 31050028


001A34 8000000000000000            2407+         DC    XL9'800000000000000000' .                               EM 31030028
001A3D 010BC0                      2408+         DC    AL3(SAV2P8)  .     ADDRESS OF USER SYST.SAVE AERA       EM 31040028
001A40 00000000                    2409+         DC    XL4'00000000' .                                         EM 31050028


001A44 8000000000000000            2411+         DC    XL9'800000000000000000' .                               EM 31030028
001A4D 010C90                      2412+         DC    AL3(SAV2P9)  .     ADDRESS OF USER SYST.SAVE AERA       EM 31040028
001A50 00000000                    2413+         DC    XL4'00000000' .                                         EM 31050028


001A54 8000000000000000            2415+         DC    XL9'800000000000000000' .                               EM 31030028
001A5D 010D60                      2416+         DC    AL3(SAV2P10) .     ADDRESS OF USER SYST.SAVE AERA       EM 31040028
001A60 00000000                    2417+         DC    XL4'00000000' .                                         EM 31050028


001A64 8000000000000000            2419+         DC    XL9'800000000000000000' .                               EM 31030028
001A6D 010E30                      2420+         DC    AL3(SAV2P11) .     ADDRESS OF USER SYST.SAVE AERA       EM 31040028
001A70 00000000                    2421+         DC    XL4'00000000' .                                         EM 31050028


001A74 8000000000000000            2423+         DC    XL9'800000000000000000' .                               EM 31030028
001A7D 010F00                      2424+         DC    AL3(SAV2P12) .     ADDRESS OF USER SYST.SAVE AERA       EM 31040028
001A80 00000000                    2425+         DC    XL4'00000000' .                                         EM 31050028


001A84 8000000000000000            2427+         DC    XL9'800000000000000000' .                               EM 31030028
001A8D 010FD0                      2428+         DC    AL3(SAV2P13) .     ADDRESS OF USER SYST.SAVE AERA       EM 31040028
001A90 00000000                    2429+         DC    XL4'00000000' .                                         EM 31050028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001A94 8000000000000000            2431+         DC    XL9'800000000000000000' .                                EM 31030028
001A9D 0110A0                      2432+         DC    AL3(SAV2P14) .     ADDRESS OF USER SYST.SAVE AERA        EM 31040028
001AA0 00000000                    2433+         DC    XL4'00000000' .                                          EM 31050028

001AA4 8000000000000000            2435+         DC    XL9'800000000000000000' .                                EM 31030028
001AAD 011170                      2436+         DC    AL3(SAV2P15) .     ADDRESS OF USER SYST.SAVE AERA        EM 31040028
001AB0 00000000                    2437+         DC    XL4'00000000' .                                          EM 31050028


                                   2439+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 31450028
                                   2440+*                                                                        * 31460028
                                   2441+*        PROGRAM CHECK TABLE.                                            * 31470028
                                   2442+*                                                                        * 31472028
                                   2443+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 31474028

                            01AAC  2445+PCTAB    EQU   *-8 .              PC OPTION TABLE                          31480028
001AB4 0000000000000000            2446+         DC    2F'0' .            BACKGROUND ENTRY                         31520028
001ABC 0000000000000000            2447+         DC    8F'0'   .          FOREGROUND ENTRIES                    UL 31600028
001ADC 0000000000000000            2448+         DC    20F'0'   .         SUBTASK ENTRIES                       UL 31680028


                                   2450+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 31802528
                                   2451+*                                                                        * 31805028
                                   2452+*        INTERVAL TIMER TABLE.                                           * 31807528
                                   2453+*                                                                        * 31810028
                                   2454+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 31812528

                            01B2C  2456+ITTAB    EQU   * .                                                      AC 31840028
001B2C                             2457+         DS    0F                                                       OW 31876428
001B2C 0000000000000000            2458+         DC    30F'0'                                                   OW 31878028


                                   2460+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 31962528
                                   2461+*                                                                        * 31965028
                                   2462+*        OPERATOR COMMUNICATIONS TABLE.                                  * 31967528
                                   2463+*                                                                        * 31970028
                                   2464+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 31972528

                            01B9C  2466+OCTAB    EQU   *-8 .              OC TABLE                                 AC 32000028
001BA4 0000000000000000            2467+         DC    2F'0' .            BACKGROUND ENTRY                         AC 32040028


001BAC 0000000000000000            2469+         DC    8F'0'   .          FOREGROUND ENTRIES                    UL 32160028
001BD0                             2470+         DS    0D                                                          32280028
001BD0 0000000000000000            2471+ACCTUSER DC    250X'0'       .     USER SAVE AREA                       UL 32320028


                                   2473+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 32443533
                                   2474+*                                                                        * 32445033
                                   2475+*   W A R N I N G   FICL,NICL AND LUBS MUST BE GENERATED CONTIGUOUSLY    * 32446533
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                          DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   2476+*                                                                        * 32448033
                                   2477+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 32449533
                                   2478+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 32451033
                                   2479+*                                                                        * 32452533
                                   2480+*       FIRST IN CLASS LIST TABLE.                                       * 32454033
                                   2481+*                                                                        * 32455533
                                   2482+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 32457033

001CCA                             2484+        DS    0H                                                  @DM03140 32490228
001CCA 00                          2485+FICL    DC    AL1(0) .           FIRST BG SYSTEM LUB INDEX              RS 32520028
001CCB 0E                          2486+        DC    AL1(14)   .          PROGRAMMER LUB INDEX                 RS 32640028
001CCC 44                          2487+        DC    AL1(68)   .          PROGRAMMER LUB INDEX                 RS 32640028
001CCD 84                          2488+        DC    AL1(132)  .          PROGRAMMER LUB INDEX                 RS 32640028
001CCE B5                          2489+        DC    AL1(181)  .          PROGRAMMER LUB INDEX                 RS 32640028
001CCF FE                          2490+        DC    AL1(254)  .          PROGRAMMER LUB INDEX                 RS 32640028

                                   2492+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 32950028
                                   2493+*                                                                        * 32960028
                                   2494+*       NEXT IN CLASS LIST TABLE.                                        * 32962028
                                   2495+*                                                                        * 32964028
                                   2496+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 32966028

001CD0 0E                          2498+NICL    DC    AL1(14)   .          TOTAL NUMBER OF SYSTEM LUBS          RS 32970028
001CD1 28                          2499+        DC    AL1(40)         .    TOTAL NUMBER OF PROGRAMMER LUBS      RS 33060028
001CD2 32                          2500+        DC    AL1(50)         .    TOTAL NUMBER OF PROGRAMMER LUBS      RS 33060028
001CD3 23                          2501+        DC    AL1(35)         .    TOTAL NUMBER OF PROGRAMMER LUBS      RS 33060028
001CD4 3B                          2502+        DC    AL1(59)         .    TOTAL NUMBER OF PROGRAMMER LUBS      RS 33060028
001CD5 11                          2503+        DC    AL1(17)         .    TOTAL NUMBER OF PROGRAMMER LUBS      RS 33060028

                                   2505+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 33340028
                                   2506+*                                                                        * 33350028
                                   2507+*       LOGICAL UNIT BLOCK TABLE.                                        * 33352028
                                   2508+*                                                                        * 33354028
                                   2509+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 33356028

001CD6                             2511+LUBTAB  DS    0H .               LUB TABLE                              RS 33360028
001CD6 FFFFFFFFFFFFFFFF            2512+SYSLUB  DC    14X'FFFF'    .     BG SYSTEM LUBS                         RS 33390028
001CF2 FFFFFFFFFFFFFFFF            2513+PGRLUB  DC    40X'FFFF'        . BG PROGRAMMER LUBS                     RS 33420028
001D42 FFFFFFFFFFFFFFFF            2514+F4LUB    DC   14X'FFFF'    .     SYSTEM LUBS                            RS 33540028
001D5E FFFFFFFFFFFFFFFF            2515+        DC    50X'FFFF'       .         PROGRAMMER LUBS                 RS 33570028
001DC2 FFFFFFFFFFFFFFFF            2516+F3LUB    DC   14X'FFFF'    .     SYSTEM LUBS                            RS 33540028
001DDE FFFFFFFFFFFFFFFF            2517+        DC    35X'FFFF'       .         PROGRAMMER LUBS                 RS 33570028
001E24 FFFFFFFFFFFFFFFF            2518+F2LUB    DC   14X'FFFF'    .     SYSTEM LUBS                            RS 33540028
001E40 FFFFFFFFFFFFFFFF            2519+        DC    59X'FFFF'       .         PROGRAMMER LUBS                 RS 33570028
001EB6 FFFFFFFFFFFFFFFF            2520+F1LUB    DC   14X'FFFF'    .     SYSTEM LUBS                            RS 33540028
001ED2 FFFFFFFFFFFFFFFF            2521+        DC    17X'FFFF'       .         PROGRAMMER LUBS                 RS 33570028


                                   2523+*                                                                 @DM01647 33666034
                                   2524+*       HEAD QUEUE TABLE                                          @DM01647 33669034
                                   2525+*                                                                 @DM01647 33672034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           01EF4  2526+HQPUBTAB EQU   * .                START OF HEAD QUEUE TABLE    @DM01647 33675034
001EF4 0000FF0000000000           2527+HQLOG    DC    X'0000FF000000000000000000' CRT LOG PUB         @D34SDAP 33681034
001F00 0000FF0000000000           2528+HQSNS    DC    X'0000FF000000000000000000' SENSE PUB           @D34SDAP 33687034
001F0C 0000FF0000000000           2529+HQDSK    DC    X'0000FF000000000000000000' DISK ERP PUB        @D34SDAP 33690034
                           01F18  2530+HQRAS    EQU   *                                               @D34SDAP 33693034
001F18 0000FF0000000000           2531+         DC    X'0000FF000000000000000000' RAS PUB             @D34SDAP 33699034
                           01F24  2532+HQCRT    EQU   *                                               @D34SDAP 33705034
001F24 0000FF0000000000           2533+         DC    X'0000FF000000000000000000' CRT PUB             @D34SDAP 33711034
001F30 0000FF0000000000           2534+HQPMR    DC    X'0000FF000000000000000000' PAGE MANAGER PUB    @D34SDAP 33717034
001F3C 0000FF0000000000           2535+HQERP    DC    X'0000FF000000000000000000' ERP PUB             @D34SDAP 33720034
001F48 0000FF0000000000           2536+HQSUP    DC    X'0000FF000000000000000000' FETCH PUB           @D34SDAP 33723034
001F54 0000FF0000000000           2537+HQSVT    DC    X'0000FF000000000000000000' SERVICE PUB         @D34SDAP 33726034
                           01F60  2538+HQASY    EQU   *                                               @D34SDAP 33729034
                           01F60  2539+HQNOP    EQU   *                                               @D34SDAP 33743034
                           0000C  2540+HQLENGTH EQU   HQDSK-HQSNS        LENGTH OF A TABLE ENTRY      @D34SDAP 33858234
                           01EE8  2541+HQTABS   EQU   HQPUBTAB-HQLENGTH  START ADDRESS OF TABLE       @D34SDAP 33863234
                           01F54  2542+HQTABE   EQU   HQNOP-HQLENGTH     ENDADDRESS OF TABLE          @D34SDAP 33868234



                                  2544+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 33880128
                                  2545+*                                                                              * 33880228
                                  2546+*     W A R N I N G   FOCL AND PUBS MUST BE GENERATED CONTIGUOUSLY             * 33880328
                                  2547+*                                                                              * 33880428
                                  2548+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 33880528
001F60 0000000000                 2549+         DC    5X'00' .           ALIGNMENT BYTES              @DM03181 33880628
001F65 FFFFFFFFFFFFF              2550+FOCL     DC    7X'FF' .           USED TO MAP PUBS                      33881028



                                  2552+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 33882528
                                  2553+*                                                                              * 33885028
                                  2554+*        PHYSICAL UNIT BLOCK TABLE.                                            * 33887528
                                  2555+*                                                                              * 33890028
                                  2556+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 33892528

001F6C FF00000000000000           2558+PUBTAB   DC    150X'FF00000000000000'   PUB TABLE                    33920028
                          0241C   2559+PUBEND   EQU   * .                END OF PUB TABLE                JK 33960028


00241C FF                         2561+         DC    X'FF' .            DELIMITER OF PUB TABLE               34040028
                                  2562+*                                                                   RS 34046028
                                  2563+*        PUB OWNERSHIP TABLE                                        RS 34052028
                                  2564+*                                                                   RS 34058028
00241E                            2565+PUBOWNER DS    0H .                                               RS 34064028
00241E 0000000000000000           2566+         DC    150X'0000'   .                                     RS 34070028


00254A 00                         2568+FAVP     DC    X'00' .            FIRST AVAIL.POINTER FOR JIBS    UL 34076028


                                  2570+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 34642528
                                  2571+*                                                                              * 34645028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   2572+*        JOB INFORMATION BLOCK TABLE.                                  * 34647528
                                   2573+*                                                                      * 34650028
                                   2574+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 34652528

                            0254B  2576+JIBTAB   EQU   * .               JIB TABLE                            34680028
00254B 000000                      2577+         DC    3X'00' .          JIB ENTRY                            34840028
00254E 01                          2578+         DC    AL1(1)    .       JIB CHAIN                            34880028
00254F 000000                      2579+         DC    3X'00' .          JIB ENTRY                            34840028
002552 02                          2580+         DC    AL1(2)    .       JIB CHAIN                            34880028
002553 000000                      2581+         DC    3X'00' .          JIB ENTRY                            34840028
002556 03                          2582+         DC    AL1(3)    .       JIB CHAIN                            34880028
002557 000000                      2583+         DC    3X'00' .          JIB ENTRY                            34840028
00255A 04                          2584+         DC    AL1(4)    .       JIB CHAIN                            34880028
00255B 000000                      2585+         DC    3X'00' .          JIB ENTRY                            34840028
00255E 05                          2586+         DC    AL1(5)    .       JIB CHAIN                            34880028
00255F 000000                      2587+         DC    3X'00' .          JIB ENTRY                            34840028
002562 06                          2588+         DC    AL1(6)    .       JIB CHAIN                            34880028
002563 000000                      2589+         DC    3X'00' .          JIB ENTRY                            34840028
002566 07                          2590+         DC    AL1(7)    .       JIB CHAIN                            34880028
002567 000000                      2591+         DC    3X'00' .          JIB ENTRY                            34840028
00256A 08                          2592+         DC    AL1(8)    .       JIB CHAIN                            34880028
00256B 000000                      2593+         DC    3X'00' .          JIB ENTRY                            34840028
00256E 09                          2594+         DC    AL1(9)    .       JIB CHAIN                            34880028
00256F 000000                      2595+         DC    3X'00' .          JIB ENTRY                            34840028
002572 0A                          2596+         DC    AL1(10)   .       JIB CHAIN                            34880028
002573 000000                      2597+         DC    3X'00' .          JIB ENTRY                            34840028
002576 0B                          2598+         DC    AL1(11)   .       JIB CHAIN                            34880028
002577 000000                      2599+         DC    3X'00' .          JIB ENTRY                            34840028
00257A 0C                          2600+         DC    AL1(12)   .       JIB CHAIN                            34880028
00257B 000000                      2601+         DC    3X'00' .          JIB ENTRY                            34840028
00257E 0D                          2602+         DC    AL1(13)   .       JIB CHAIN                            34880028
00257F 000000                      2603+         DC    3X'00' .          JIB ENTRY                            34840028
002582 0E                          2604+         DC    AL1(14)   .       JIB CHAIN                            34880028
002583 000000                      2605+         DC    3X'00' .          JIB ENTRY                            34840028
002586 0F                          2606+         DC    AL1(15)   .       JIB CHAIN                            34880028
002587 000000                      2607+         DC    3X'00' .          JIB ENTRY                            34840028
00258A 10                          2608+         DC    AL1(16)   .       JIB CHAIN                            34880028
00258B 000000                      2609+         DC    3X'00' .          JIB ENTRY                            34840028
00258E 11                          2610+         DC    AL1(17)   .       JIB CHAIN                            34880028
00258F 000000                      2611+         DC    3X'00' .          JIB ENTRY                            34840028
002592 12                          2612+         DC    AL1(18)   .       JIB CHAIN                            34880028
002593 000000                      2613+         DC    3X'00' .          JIB ENTRY                            34840028
002596 13                          2614+         DC    AL1(19)   .       JIB CHAIN                            34880028
002597 000000                      2615+         DC    3X'00' .          JIB ENTRY                            34840028
00259A 14                          2616+         DC    AL1(20)   .       JIB CHAIN                            34880028
00259B 000000                      2617+         DC    3X'00' .          JIB ENTRY                            34840028
00259E 15                          2618+         DC    AL1(21)   .       JIB CHAIN                            34880028
00259F 000000                      2619+         DC    3X'00' .          JIB ENTRY                            34840028
0025A2 16                          2620+         DC    AL1(22)   .       JIB CHAIN                            34880028
0025A3 000000                      2621+         DC    3X'00' .          JIB ENTRY                            34840028
0025A6 17                          2622+         DC    AL1(23)   .       JIB CHAIN                            34880028
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0025A7 000000                    2623+         DC    3X'00' .          JIB ENTRY                          34840028
0025AA 18                        2624+         DC    AL1(24)   .       JIB CHAIN                          34880028
0025AB 000000                    2625+         DC    3X'00' .          JIB ENTRY                          34840028
0025AE 19                        2626+         DC    AL1(25)   .       JIB CHAIN                          34880028
0025AF 000000                    2627+         DC    3X'00' .          JIB ENTRY                          34840028
0025B2 1A                        2628+         DC    AL1(26)   .       JIB CHAIN                          34880028
0025B3 000000                    2629+         DC    3X'00' .          JIB ENTRY                          34840028
0025B6 1B                        2630+         DC    AL1(27)   .       JIB CHAIN                          34880028
0025B7 000000                    2631+         DC    3X'00' .          JIB ENTRY                          34840028
0025BA 1C                        2632+         DC    AL1(28)   .       JIB CHAIN                          34880028
0025BB 000000                    2633+         DC    3X'00' .          JIB ENTRY                          34840028
0025BE 1D                        2634+         DC    AL1(29)   .       JIB CHAIN                          34880028
0025BF 000000                    2635+         DC    3X'00' .          JIB ENTRY                          34840028
0025C2 1E                        2636+         DC    AL1(30)   .       JIB CHAIN                          34880028
0025C3 000000                    2637+         DC    3X'00' .          JIB ENTRY                          34840028
0025C6 1F                        2638+         DC    AL1(31)   .       JIB CHAIN                          34880028
0025C7 000000                    2639+         DC    3X'00' .          JIB ENTRY                          34840028
0025CA 20                        2640+         DC    AL1(32)   .       JIB CHAIN                          34880028
0025CB 000000                    2641+         DC    3X'00' .          JIB ENTRY                          34840028
0025CE 21                        2642+         DC    AL1(33)   .       JIB CHAIN                          34880028
0025CF 000000                    2643+         DC    3X'00' .          JIB ENTRY                          34840028
0025D2 22                        2644+         DC    AL1(34)   .       JIB CHAIN                          34880028
0025D3 000000                    2645+         DC    3X'00' .          JIB ENTRY                          34840028
0025D6 23                        2646+         DC    AL1(35)   .       JIB CHAIN                          34880028
0025D7 000000                    2647+         DC    3X'00' .          JIB ENTRY                          34840028
0025DA 24                        2648+         DC    AL1(36)   .       JIB CHAIN                          34880028
0025DB 000000                    2649+         DC    3X'00' .          JIB ENTRY                          34840028
0025DE 25                        2650+         DC    AL1(37)   .       JIB CHAIN                          34880028
0025DF 000000                    2651+         DC    3X'00' .          JIB ENTRY                          34840028
0025E2 26                        2652+         DC    AL1(38)   .       JIB CHAIN                          34880028
0025E3 000000                    2653+         DC    3X'00' .          JIB ENTRY                          34840028
0025E6 27                        2654+         DC    AL1(39)   .       JIB CHAIN                          34880028
0025E7 000000                    2655+         DC    3X'00' .          JIB ENTRY                          34840028
0025EA 28                        2656+         DC    AL1(40)   .       JIB CHAIN                          34880028
0025EB 000000                    2657+         DC    3X'00' .          JIB ENTRY                          34840028
0025EE 29                        2658+         DC    AL1(41)   .       JIB CHAIN                          34880028
0025EF 000000                    2659+         DC    3X'00' .          JIB ENTRY                          34840028
0025F2 2A                        2660+         DC    AL1(42)   .       JIB CHAIN                          34880028
0025F3 000000                    2661+         DC    3X'00' .          JIB ENTRY                          34840028
0025F6 2B                        2662+         DC    AL1(43)   .       JIB CHAIN                          34880028
0025F7 000000                    2663+         DC    3X'00' .          JIB ENTRY                          34840028
0025FA 2C                        2664+         DC    AL1(44)   .       JIB CHAIN                          34880028
0025FB 000000                    2665+         DC    3X'00' .          JIB ENTRY                          34840028
0025FE 2D                        2666+         DC    AL1(45)   .       JIB CHAIN                          34880028
0025FF 000000                    2667+         DC    3X'00' .          JIB ENTRY                          34840028
002602 2E                        2668+         DC    AL1(46)   .       JIB CHAIN                          34880028
002603 000000                    2669+         DC    3X'00' .          JIB ENTRY                          34840028
002606 2F                        2670+         DC    AL1(47)   .       JIB CHAIN                          34880028
002607 000000                    2671+         DC    3X'00' .          JIB ENTRY                          34840028
00260A 30                        2672+         DC    AL1(48)   .       JIB CHAIN                          34880028
00260B 000000                    2673+         DC    3X'00' .          JIB ENTRY                          34840028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00260E 31                         2674+         DC    AL1(49)   .        JIB CHAIN                                34880028
00260F 000000                     2675+         DC    3X'00' .           JIB ENTRY                                34840028
002612 32                         2676+         DC    AL1(50)   .        JIB CHAIN                                34880028
002613 000000                     2677+         DC    3X'00' .           JIB ENTRY                                34840028
002616 33                         2678+         DC    AL1(51)   .        JIB CHAIN                                34880028
002617 000000                     2679+         DC    3X'00' .           JIB ENTRY                                34840028
00261A 34                         2680+         DC    AL1(52)   .        JIB CHAIN                                34880028
00261B 000000                     2681+         DC    3X'00' .           JIB ENTRY                                34840028
00261E 35                         2682+         DC    AL1(53)   .        JIB CHAIN                                34880028
00261F 000000                     2683+         DC    3X'00' .           JIB ENTRY                                34840028
002622 36                         2684+         DC    AL1(54)   .        JIB CHAIN                                34880028
002623 000000                     2685+         DC    3X'00' .           JIB ENTRY                                34840028
002626 37                         2686+         DC    AL1(55)   .        JIB CHAIN                                34880028
002627 000000                     2687+         DC    3X'00' .           JIB ENTRY                                34840028
00262A 38                         2688+         DC    AL1(56)   .        JIB CHAIN                                34880028
00262B 000000                     2689+         DC    3X'00' .           JIB ENTRY                                34840028
00262E 39                         2690+         DC    AL1(57)   .        JIB CHAIN                                34880028
00262F 000000                     2691+         DC    3X'00' .           JIB ENTRY                                34840028
002632 3A                         2692+         DC    AL1(58)   .        JIB CHAIN                                34880028
002633 000000                     2693+         DC    3X'00' .           JIB ENTRY                                34840028
002636 3B                         2694+         DC    AL1(59)   .        JIB CHAIN                                34880028
002637 000000                     2695+         DC    3X'00' .           JIB ENTRY                                34840028
00263A 3C                         2696+         DC    AL1(60)   .        JIB CHAIN                                34880028
00263B 000000                     2697+         DC    3X'00' .           JIB ENTRY                                34840028
00263E 3D                         2698+         DC    AL1(61)   .        JIB CHAIN                                34880028
00263F 000000                     2699+         DC    3X'00' .           JIB ENTRY                                34840028
002642 3E                         2700+         DC    AL1(62)   .        JIB CHAIN                                34880028
002643 000000                     2701+         DC    3X'00' .           JIB ENTRY                                34840028
002646 3F                         2702+         DC    AL1(63)   .        JIB CHAIN                                34880028
002647 000000                     2703+         DC    3X'00' .           JIB ENTRY                                34840028
00264A 40                         2704+         DC    AL1(64)   .        JIB CHAIN                                34880028
00264B 000000                     2705+         DC    3X'00' .           JIB ENTRY                                34840028
00264E 41                         2706+         DC    AL1(65)   .        JIB CHAIN                                34880028
00264F 000000                     2707+         DC    3X'00' .           JIB ENTRY                                34840028
002652 42                         2708+         DC    AL1(66)   .        JIB CHAIN                                34880028
002653 000000                     2709+         DC    3X'00' .           JIB ENTRY                                34840028
002656 43                         2710+         DC    AL1(67)   .        JIB CHAIN                                34880028
002657 000000                     2711+         DC    3X'00' .           JIB ENTRY                                34840028
00265A 44                         2712+         DC    AL1(68)   .        JIB CHAIN                                34880028
00265B 000000                     2713+         DC    3X'00' .           JIB ENTRY                                34840028
00265E 45                         2714+         DC    AL1(69)   .        JIB CHAIN                                34880028
00265F 000000                     2715+         DC    3X'00' .           JIB ENTRY                                34840028
002662 46                         2716+         DC    AL1(70)   .        JIB CHAIN                                34880028
002663 000000                     2717+         DC    3X'00' .           JIB ENTRY                                34840028
002666 47                         2718+         DC    AL1(71)   .        JIB CHAIN                                34880028
002667 000000                     2719+         DC    3X'00' .           JIB ENTRY                                34840028
00266A 48                         2720+         DC    AL1(72)   .        JIB CHAIN                                34880028
00266B 000000                     2721+         DC    3X'00' .           JIB ENTRY                                34840028
00266E 49                         2722+         DC    AL1(73)   .        JIB CHAIN                                34880028
00266F 000000                     2723+         DC    3X'00' .           JIB ENTRY                                34840028
002672 4A                         2724+         DC    AL1(74)   .        JIB CHAIN                                34880028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002673 000000                     2725+         DC    3X'00' .          JIB ENTRY                              34840028
002676 4B                         2726+         DC    AL1(75)   .       JIB CHAIN                              34880028
002677 000000                     2727+         DC    3X'00' .          JIB ENTRY                              34840028
00267A 4C                         2728+         DC    AL1(76)   .       JIB CHAIN                              34880028
00267B 000000                     2729+         DC    3X'00' .          JIB ENTRY                              34840028
00267E 4D                         2730+         DC    AL1(77)   .       JIB CHAIN                              34880028
00267F 000000                     2731+         DC    3X'00' .          JIB ENTRY                              34840028
002682 4E                         2732+         DC    AL1(78)   .       JIB CHAIN                              34880028
002683 000000                     2733+         DC    3X'00' .          JIB ENTRY                              34840028
002686 4F                         2734+         DC    AL1(79)   .       JIB CHAIN                              34880028
002687 000000                     2735+         DC    3X'00' .          JIB ENTRY                              34840028
00268A 50                         2736+         DC    AL1(80)   .       JIB CHAIN                              34880028
00268B 000000                     2737+         DC    3X'00' .          JIB ENTRY                              34840028
00268E 51                         2738+         DC    AL1(81)   .       JIB CHAIN                              34880028
00268F 000000                     2739+         DC    3X'00' .          JIB ENTRY                              34840028
002692 52                         2740+         DC    AL1(82)   .       JIB CHAIN                              34880028
002693 000000                     2741+         DC    3X'00' .          JIB ENTRY                              34840028
002696 53                         2742+         DC    AL1(83)   .       JIB CHAIN                              34880028
002697 000000                     2743+         DC    3X'00' .          JIB ENTRY                              34840028
00269A 54                         2744+         DC    AL1(84)   .       JIB CHAIN                              34880028
00269B 000000                     2745+         DC    3X'00' .          JIB ENTRY                              34840028
00269E 55                         2746+         DC    AL1(85)   .       JIB CHAIN                              34880028
00269F 000000                     2747+         DC    3X'00' .          JIB ENTRY                              34840028
0026A2 56                         2748+         DC    AL1(86)   .       JIB CHAIN                              34880028
0026A3 000000                     2749+         DC    3X'00' .          JIB ENTRY                              34840028
0026A6 57                         2750+         DC    AL1(87)   .       JIB CHAIN                              34880028
0026A7 000000                     2751+         DC    3X'00' .          JIB ENTRY                              34840028
0026AA 58                         2752+         DC    AL1(88)   .       JIB CHAIN                              34880028
0026AB 000000                     2753+         DC    3X'00' .          JIB ENTRY                              34840028
0026AE 59                         2754+         DC    AL1(89)   .       JIB CHAIN                              34880028
0026AF 000000                     2755+         DC    3X'00' .          JIB ENTRY                              34840028
0026B2 5A                         2756+         DC    AL1(90)   .       JIB CHAIN                              34880028
0026B3 000000                     2757+         DC    3X'00' .          JIB ENTRY                              34840028
0026B6 5B                         2758+         DC    AL1(91)   .       JIB CHAIN                              34880028
0026B7 000000                     2759+         DC    3X'00' .          JIB ENTRY                              34840028
0026BA 5C                         2760+         DC    AL1(92)   .       JIB CHAIN                              34880028
0026BB 000000                     2761+         DC    3X'00' .          JIB ENTRY                              34840028
0026BE 5D                         2762+         DC    AL1(93)   .       JIB CHAIN                              34880028
0026BF 000000                     2763+         DC    3X'00' .          JIB ENTRY                              34840028
0026C2 5E                         2764+         DC    AL1(94)   .       JIB CHAIN                              34880028
0026C3 000000                     2765+         DC    3X'00' .          JIB ENTRY                              34840028
0026C6 5F                         2766+         DC    AL1(95)   .       JIB CHAIN                              34880028
0026C7 000000                     2767+         DC    3X'00' .          JIB ENTRY                              34840028
0026CA 60                         2768+         DC    AL1(96)   .       JIB CHAIN                              34880028
0026CB 000000                     2769+         DC    3X'00' .          JIB ENTRY                              34840028
0026CE 61                         2770+         DC    AL1(97)   .       JIB CHAIN                              34880028
0026CF 000000                     2771+         DC    3X'00' .          JIB ENTRY                              34840028
0026D2 62                         2772+         DC    AL1(98)   .       JIB CHAIN                              34880028
0026D3 000000                     2773+         DC    3X'00' .          JIB ENTRY                              34840028
0026D6 63                         2774+         DC    AL1(99)   .       JIB CHAIN                              34880028
0026D7 000000                     2775+         DC    3X'00' .          JIB ENTRY                              34840028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0026DA 64                         2776+         DC    AL1(100)  .        JIB CHAIN                              34880028
0026DB 000000                     2777+         DC    3X'00' .           JIB ENTRY                              34840028
0026DE 65                         2778+         DC    AL1(101)  .        JIB CHAIN                              34880028
0026DF 000000                     2779+         DC    3X'00' .           JIB ENTRY                              34840028
0026E2 66                         2780+         DC    AL1(102)  .        JIB CHAIN                              34880028
0026E3 000000                     2781+         DC    3X'00' .           JIB ENTRY                              34840028
0026E6 67                         2782+         DC    AL1(103)  .        JIB CHAIN                              34880028
0026E7 000000                     2783+         DC    3X'00' .           JIB ENTRY                              34840028
0026EA 68                         2784+         DC    AL1(104)  .        JIB CHAIN                              34880028
0026EB 000000                     2785+         DC    3X'00' .           JIB ENTRY                              34840028
0026EE 69                         2786+         DC    AL1(105)  .        JIB CHAIN                              34880028
0026EF 000000                     2787+         DC    3X'00' .           JIB ENTRY                              34840028
0026F2 6A                         2788+         DC    AL1(106)  .        JIB CHAIN                              34880028
0026F3 000000                     2789+         DC    3X'00' .           JIB ENTRY                              34840028
0026F6 6B                         2790+         DC    AL1(107)  .        JIB CHAIN                              34880028
0026F7 000000                     2791+         DC    3X'00' .           JIB ENTRY                              34840028
0026FA 6C                         2792+         DC    AL1(108)  .        JIB CHAIN                              34880028
0026FB 000000                     2793+         DC    3X'00' .           JIB ENTRY                              34840028
0026FE 6D                         2794+         DC    AL1(109)  .        JIB CHAIN                              34880028
0026FF 000000                     2795+         DC    3X'00' .           JIB ENTRY                              34840028
002702 6E                         2796+         DC    AL1(110)  .        JIB CHAIN                              34880028
002703 000000                     2797+         DC    3X'00' .           JIB ENTRY                              34840028
002706 6F                         2798+         DC    AL1(111)  .        JIB CHAIN                              34880028
002707 000000                     2799+         DC    3X'00' .           JIB ENTRY                              34840028
00270A 70                         2800+         DC    AL1(112)  .        JIB CHAIN                              34880028
00270B 000000                     2801+         DC    3X'00' .           JIB ENTRY                              34840028
00270E 71                         2802+         DC    AL1(113)  .        JIB CHAIN                              34880028
00270F 000000                     2803+         DC    3X'00' .           JIB ENTRY                              34840028
002712 72                         2804+         DC    AL1(114)  .        JIB CHAIN                              34880028
002713 000000                     2805+         DC    3X'00' .           JIB ENTRY                              34840028
002716 73                         2806+         DC    AL1(115)  .        JIB CHAIN                              34880028
002717 000000                     2807+         DC    3X'00' .           JIB ENTRY                              34840028
00271A 74                         2808+         DC    AL1(116)  .        JIB CHAIN                              34880028
00271B 000000                     2809+         DC    3X'00' .           JIB ENTRY                              34840028
00271E 75                         2810+         DC    AL1(117)  .        JIB CHAIN                              34880028
00271F 000000                     2811+         DC    3X'00' .           JIB ENTRY                              34840028
002722 76                         2812+         DC    AL1(118)  .        JIB CHAIN                              34880028
002723 000000                     2813+         DC    3X'00' .           JIB ENTRY                              34840028
002726 77                         2814+         DC    AL1(119)  .        JIB CHAIN                              34880028
002727 000000                     2815+         DC    3X'00' .           JIB ENTRY                              34840028
00272A 78                         2816+         DC    AL1(120)  .        JIB CHAIN                              34880028
00272B 000000                     2817+         DC    3X'00' .           JIB ENTRY                              34840028
00272E 79                         2818+         DC    AL1(121)  .        JIB CHAIN                              34880028
00272F 000000                     2819+         DC    3X'00' .           JIB ENTRY                              34840028
002732 7A                         2820+         DC    AL1(122)  .        JIB CHAIN                              34880028
002733 000000                     2821+         DC    3X'00' .           JIB ENTRY                              34840028
002736 7B                         2822+         DC    AL1(123)  .        JIB CHAIN                              34880028
002737 000000                     2823+         DC    3X'00' .           JIB ENTRY                              34840028
00273A 7C                         2824+         DC    AL1(124)  .        JIB CHAIN                              34880028
00273B 000000                     2825+         DC    3X'00' .           JIB ENTRY                              34840028
00273E 7D                         2826+         DC    AL1(125)  .        JIB CHAIN                              34880028
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00273F 000000                    2827+         DC    3X'00' .          JIB ENTRY                          34840028
002742 7E                        2828+         DC    AL1(126)  .       JIB CHAIN                          34880028
002743 000000                    2829+         DC    3X'00' .          JIB ENTRY                          34840028
002746 7F                        2830+         DC    AL1(127)  .       JIB CHAIN                          34880028
002747 000000                    2831+         DC    3X'00' .          JIB ENTRY                          34840028
00274A 80                        2832+         DC    AL1(128)  .       JIB CHAIN                          34880028
00274B 000000                    2833+         DC    3X'00' .          JIB ENTRY                          34840028
00274E 81                        2834+         DC    AL1(129)  .       JIB CHAIN                          34880028
00274F 000000                    2835+         DC    3X'00' .          JIB ENTRY                          34840028
002752 82                        2836+         DC    AL1(130)  .       JIB CHAIN                          34880028
002753 000000                    2837+         DC    3X'00' .          JIB ENTRY                          34840028
002756 83                        2838+         DC    AL1(131)  .       JIB CHAIN                          34880028
002757 000000                    2839+         DC    3X'00' .          JIB ENTRY                          34840028
00275A 84                        2840+         DC    AL1(132)  .       JIB CHAIN                          34880028
00275B 000000                    2841+         DC    3X'00' .          JIB ENTRY                          34840028
00275E 85                        2842+         DC    AL1(133)  .       JIB CHAIN                          34880028
00275F 000000                    2843+         DC    3X'00' .          JIB ENTRY                          34840028
002762 86                        2844+         DC    AL1(134)  .       JIB CHAIN                          34880028
002763 000000                    2845+         DC    3X'00' .          JIB ENTRY                          34840028
002766 87                        2846+         DC    AL1(135)  .       JIB CHAIN                          34880028
002767 000000                    2847+         DC    3X'00' .          JIB ENTRY                          34840028
00276A 88                        2848+         DC    AL1(136)  .       JIB CHAIN                          34880028
00276B 000000                    2849+         DC    3X'00' .          JIB ENTRY                          34840028
00276E 89                        2850+         DC    AL1(137)  .       JIB CHAIN                          34880028
00276F 000000                    2851+         DC    3X'00' .          JIB ENTRY                          34840028
002772 8A                        2852+         DC    AL1(138)  .       JIB CHAIN                          34880028
002773 000000                    2853+         DC    3X'00' .          JIB ENTRY                          34840028
002776 8B                        2854+         DC    AL1(139)  .       JIB CHAIN                          34880028
002777 000000                    2855+         DC    3X'00' .          JIB ENTRY                          34840028
00277A 8C                        2856+         DC    AL1(140)  .       JIB CHAIN                          34880028
00277B 000000                    2857+         DC    3X'00' .          JIB ENTRY                          34840028
00277E 8D                        2858+         DC    AL1(141)  .       JIB CHAIN                          34880028
00277F 000000                    2859+         DC    3X'00' .          JIB ENTRY                          34840028
002782 8E                        2860+         DC    AL1(142)  .       JIB CHAIN                          34880028
002783 000000                    2861+         DC    3X'00' .          JIB ENTRY                          34840028
002786 8F                        2862+         DC    AL1(143)  .       JIB CHAIN                          34880028
002787 000000                    2863+         DC    3X'00' .          JIB ENTRY                          34840028
00278A 90                        2864+         DC    AL1(144)  .       JIB CHAIN                          34880028
00278B 000000                    2865+         DC    3X'00' .          JIB ENTRY                          34840028
00278E 91                        2866+         DC    AL1(145)  .       JIB CHAIN                          34880028
00278F 000000                    2867+         DC    3X'00' .          JIB ENTRY                          34840028
002792 92                        2868+         DC    AL1(146)  .       JIB CHAIN                          34880028
002793 000000                    2869+         DC    3X'00' .          JIB ENTRY                          34840028
002796 93                        2870+         DC    AL1(147)  .       JIB CHAIN                          34880028
002797 000000                    2871+         DC    3X'00' .          JIB ENTRY                          34840028
00279A 94                        2872+         DC    AL1(148)  .       JIB CHAIN                          34880028
00279B 000000                    2873+         DC    3X'00' .          JIB ENTRY                          34840028
00279E 95                        2874+         DC    AL1(149)  .       JIB CHAIN                          34880028
00279F 000000                    2875+         DC    3X'00' .          JIB ENTRY                          34840028
0027A2 96                        2876+         DC    AL1(150)  .       JIB CHAIN                          34880028
0027A3 000000                    2877+         DC    3X'00' .          JIB ENTRY                          34840028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0027A6 97                        2878+         DC    AL1(151)  .        JIB CHAIN                              34880028
0027A7 000000                    2879+         DC    3X'00' .           JIB ENTRY                              34840028
0027AA 98                        2880+         DC    AL1(152)  .        JIB CHAIN                              34880028
0027AB 000000                    2881+         DC    3X'00' .           JIB ENTRY                              34840028
0027AE 99                        2882+         DC    AL1(153)  .        JIB CHAIN                              34880028
0027AF 000000                    2883+         DC    3X'00' .           JIB ENTRY                              34840028
0027B2 9A                        2884+         DC    AL1(154)  .        JIB CHAIN                              34880028
0027B3 000000                    2885+         DC    3X'00' .           JIB ENTRY                              34840028
0027B6 9B                        2886+         DC    AL1(155)  .        JIB CHAIN                              34880028
0027B7 000000                    2887+         DC    3X'00' .           JIB ENTRY                              34840028
0027BA 9C                        2888+         DC    AL1(156)  .        JIB CHAIN                              34880028
0027BB 000000                    2889+         DC    3X'00' .           JIB ENTRY                              34840028
0027BE 9D                        2890+         DC    AL1(157)  .        JIB CHAIN                              34880028
0027BF 000000                    2891+         DC    3X'00' .           JIB ENTRY                              34840028
0027C2 9E                        2892+         DC    AL1(158)  .        JIB CHAIN                              34880028
0027C3 000000                    2893+         DC    3X'00' .           JIB ENTRY                              34840028
0027C6 9F                        2894+         DC    AL1(159)  .        JIB CHAIN                              34880028
0027C7 000000                    2895+         DC    3X'00' .           JIB ENTRY                              34840028
0027CA A0                        2896+         DC    AL1(160)  .        JIB CHAIN                              34880028
0027CB 000000                    2897+         DC    3X'00' .           JIB ENTRY                              34840028
0027CE A1                        2898+         DC    AL1(161)  .        JIB CHAIN                              34880028
0027CF 000000                    2899+         DC    3X'00' .           JIB ENTRY                              34840028
0027D2 A2                        2900+         DC    AL1(162)  .        JIB CHAIN                              34880028
0027D3 000000                    2901+         DC    3X'00' .           JIB ENTRY                              34840028
0027D6 A3                        2902+         DC    AL1(163)  .        JIB CHAIN                              34880028
0027D7 000000                    2903+         DC    3X'00' .           JIB ENTRY                              34840028
0027DA A4                        2904+         DC    AL1(164)  .        JIB CHAIN                              34880028
0027DB 000000                    2905+         DC    3X'00' .           JIB ENTRY                              34840028
0027DE A5                        2906+         DC    AL1(165)  .        JIB CHAIN                              34880028
0027DF 000000                    2907+         DC    3X'00' .           JIB ENTRY                              34840028
0027E2 A6                        2908+         DC    AL1(166)  .        JIB CHAIN                              34880028
0027E3 000000                    2909+         DC    3X'00' .           JIB ENTRY                              34840028
0027E6 A7                        2910+         DC    AL1(167)  .        JIB CHAIN                              34880028
0027E7 000000                    2911+         DC    3X'00' .           JIB ENTRY                              34840028
0027EA A8                        2912+         DC    AL1(168)  .        JIB CHAIN                              34880028
0027EB 000000                    2913+         DC    3X'00' .           JIB ENTRY                              34840028
0027EE A9                        2914+         DC    AL1(169)  .        JIB CHAIN                              34880028
0027EF 000000                    2915+         DC    3X'00' .           JIB ENTRY                              34840028
0027F2 AA                        2916+         DC    AL1(170)  .        JIB CHAIN                              34880028
0027F3 000000                    2917+         DC    3X'00' .           JIB ENTRY                              34840028
0027F6 AB                        2918+         DC    AL1(171)  .        JIB CHAIN                              34880028
0027F7 000000                    2919+         DC    3X'00' .           JIB ENTRY                              34840028
0027FA AC                        2920+         DC    AL1(172)  .        JIB CHAIN                              34880028
0027FB 000000                    2921+         DC    3X'00' .           JIB ENTRY                              34840028
0027FE AD                        2922+         DC    AL1(173)  .        JIB CHAIN                              34880028
0027FF 000000                    2923+         DC    3X'00' .           JIB ENTRY                              34840028
002802 AE                        2924+         DC    AL1(174)  .        JIB CHAIN                              34880028
002803 000000                    2925+         DC    3X'00' .           JIB ENTRY                              34840028
002806 AF                        2926+         DC    AL1(175)  .        JIB CHAIN                              34880028
002807 000000                    2927+         DC    3X'00' .           JIB ENTRY                              34840028
00280A B0                        2928+         DC    AL1(176)  .        JIB CHAIN                              34880028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00280B 000000                     2929+         DC    3X'00' .          JIB ENTRY                              34840028
00280E B1                         2930+         DC    AL1(177)  .       JIB CHAIN                              34880028
00280F 000000                     2931+         DC    3X'00' .          JIB ENTRY                              34840028
002812 B2                         2932+         DC    AL1(178)  .       JIB CHAIN                              34880028
002813 000000                     2933+         DC    3X'00' .          JIB ENTRY                              34840028
002816 B3                         2934+         DC    AL1(179)  .       JIB CHAIN                              34880028
002817 000000                     2935+         DC    3X'00' .          JIB ENTRY                              34840028
00281A B4                         2936+         DC    AL1(180)  .       JIB CHAIN                              34880028
00281B 000000                     2937+         DC    3X'00' .          JIB ENTRY                              34840028
00281E B5                         2938+         DC    AL1(181)  .       JIB CHAIN                              34880028
00281F 000000                     2939+         DC    3X'00' .          JIB ENTRY                              34840028
002822 B6                         2940+         DC    AL1(182)  .       JIB CHAIN                              34880028
002823 000000                     2941+         DC    3X'00' .          JIB ENTRY                              34840028
002826 B7                         2942+         DC    AL1(183)  .       JIB CHAIN                              34880028
002827 000000                     2943+         DC    3X'00' .          JIB ENTRY                              34840028
00282A B8                         2944+         DC    AL1(184)  .       JIB CHAIN                              34880028
00282B 000000                     2945+         DC    3X'00' .          JIB ENTRY                              34840028
00282E B9                         2946+         DC    AL1(185)  .       JIB CHAIN                              34880028
00282F 000000                     2947+         DC    3X'00' .          JIB ENTRY                              34840028
002832 BA                         2948+         DC    AL1(186)  .       JIB CHAIN                              34880028
002833 000000                     2949+         DC    3X'00' .          JIB ENTRY                              34840028
002836 BB                         2950+         DC    AL1(187)  .       JIB CHAIN                              34880028
002837 000000                     2951+         DC    3X'00' .          JIB ENTRY                              34840028
00283A BC                         2952+         DC    AL1(188)  .       JIB CHAIN                              34880028
00283B 000000                     2953+         DC    3X'00' .          JIB ENTRY                              34840028
00283E BD                         2954+         DC    AL1(189)  .       JIB CHAIN                              34880028
00283F 000000                     2955+         DC    3X'00' .          JIB ENTRY                              34840028
002842 BE                         2956+         DC    AL1(190)  .       JIB CHAIN                              34880028
002843 000000                     2957+         DC    3X'00' .          JIB ENTRY                              34840028
002846 BF                         2958+         DC    AL1(191)  .       JIB CHAIN                              34880028
002847 000000                     2959+         DC    3X'00' .          JIB ENTRY                              34840028
00284A C0                         2960+         DC    AL1(192)  .       JIB CHAIN                              34880028
00284B 000000                     2961+         DC    3X'00' .          JIB ENTRY                              34840028
00284E C1                         2962+         DC    AL1(193)  .       JIB CHAIN                              34880028
00284F 000000                     2963+         DC    3X'00' .          JIB ENTRY                              34840028
002852 C2                         2964+         DC    AL1(194)  .       JIB CHAIN                              34880028
002853 000000                     2965+         DC    3X'00' .          JIB ENTRY                              34840028
002856 C3                         2966+         DC    AL1(195)  .       JIB CHAIN                              34880028
002857 000000                     2967+         DC    3X'00' .          JIB ENTRY                              34840028
00285A C4                         2968+         DC    AL1(196)  .       JIB CHAIN                              34880028
00285B 000000                     2969+         DC    3X'00' .          JIB ENTRY                              34840028
00285E C5                         2970+         DC    AL1(197)  .       JIB CHAIN                              34880028
00285F 000000                     2971+         DC    3X'00' .          JIB ENTRY                              34840028
002862 C6                         2972+         DC    AL1(198)  .       JIB CHAIN                              34880028
002863 000000                     2973+         DC    3X'00' .          JIB ENTRY                              34840028
002866 C7                         2974+         DC    AL1(199)  .       JIB CHAIN                              34880028
002867 000000FF                   2975+         DC    X'000000FF' .     LAST JIB ENTRY                         34960028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 2977+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 35430028
                                 2978+*                                                                               * 35440028
                                 2979+*        FOREGROUND COMMUNICATIONS REGION.                                      * 35450028
                                 2980+*                                                                               * 35452028
                                 2981+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 35454028

002870                           2983+F1COMREG     DS    0D .              FOREGROUND COMREG                RS 35456028
002870 0000000000000000          2984+             DC    2F'0' .          JOB DATE                             35480028
002878 1000                      2985+             DC    AL2(PPBEGIN)     SUPERVISOR END                @DM11453 35520031
00287A 1000                      2986+             DC    AL2(EOSSPR)      END OF STORAGE PROTECTION     @DM11453 35560031
00287C 0000000000000000          2987+             DC    11X'00' .        USER SCRATCH AREA                    35600028
002887 00                        2988+             DC    X'00' .          UPSI BYTE                            35640028
002888 D5D640D5C1D4C540          2989+             DC    CL8'NO NAME' .   JOB NAME                             35680028
002890 00000000                  2990+             DC    A(0) .           HIGHEST STORAGE ADDRESS OF PARTITION 35720028
002894 00000000                  2991+             DC    A(0) .           END ADDRESS OF LAST PHASE LOADED      35760028
002898 00000000                  2992+             DC    A(0) .           END ADDRESS OF LONGEST PHASE LOADED   35800028
00289C 0000                      2993+             DC    H'0' .           LENGTH OF PP LABEL AREA               35840028
00289E 0050                      2994+             DC    Y(5*16)  .        PARTITION IDENTIFIER             RS 35880028
0028A0 00FE6FFF                  2995+             DC    A(8142*2048-1)  .END OF VIRTUAL STORAGE            EM 36120028
0028A4 FA                        2996+             DC    B'11111010'                .      CONFIG               36160028
0028A5 5E                        2997+             DC    B'01011110'                          .   CONFG UL     36200028
0028A6 7C                        2998+             DC    B'01111100'                            .     STDJC SW 36240028
0028A7 D3                        2999+             DC    B'11010011'                      STDJC SW          LAV 36280028
0028A8 00                        3000+             DC    B'00000000'     .      JCTL SWITCHES                428 36320028
0028A9 00                        3001+             DC    X'00' .          LINKAGE CONTROL BYTE                 36360028
0028AA 7C                        3002+             DC    B'01111100'                            .     STDJC SW 36400028
0028AB 50                        3003+             DC    B'01010000'           .      STDJC SWITCHES           36440028
0028AC 0000                      3004+             DC    H'0' .             DISK ADDRESS OF LABEL CYLINDER      36480028
0028AE 1F65                      3005+             DC    Y(FOCL) .          ADDRESS OF FOCL                     36520028
0028B0 1F6C                      3006+             DC    Y(PUBTAB) .        ADDRESS OF PUB TABLE                36560028
0028B2 254A                      3007+             DC    Y(FAVP) .          ADDRESS OF FAVP                     36600028
0028B4 254B                      3008+             DC    Y(JIBTAB) .        ADDRESS OF JIB TABLE                36640028
0028B6 0000                      3009+             DC    Y(0) .             NULL TEB ADDRESS                    36720028
0028B8 1CCA                      3010+             DC    Y(FICL) .          ADDRESS OF FICL                     36920028
0028BA 1CD0                      3011+             DC    Y(NICL) .          ADDRESS OF NICL                     36960028
0028BC 1CD6                      3012+             DC    Y(LUBTAB) .        ADDRESS OF LUB TABLE                37000028
0028BE 38                        3013+             DC    AL1(56)    .       SYSLIST LINE COUNT                  37040028
0028BF F0F0F0F0F0F0F0F0          3014+             DC    9C'0' .            SYSTEM DATE                         37080028
0028C8 0000                      3015+             DC    H'0' .             LIOCS COMMUNICATION BYTES           37120028
0028CA 19B4                      3016+             DC    Y(PIBTAB) .        ADDRESS OF PIB TABLE                37160028
0028CC 0000                      3017+             DC    H'0' .             LAST CHECKPOINT NUMBER              37200028
0028CE FED4                      3018+             DC    AL2(65236) .          JOB ZONE IN MINUTES          428 37240028
0028D0 2CF0                      3019+             DC    Y(DSKPOSF1)     .     FG DIB POINTER                UL 37320028
0028D2 0000                      3020+             DC    H'0' .             RESERVED                            37520028
0028D4 1AAC                      3021+             DC    Y(PCTAB) .         ADDRESS OF PC OPTION TABLE          37600028
0028D6 1B2C                      3022+             DC    Y(ITTAB) .         ADDRESS OF IT OPTION TABLE          37840028
0028D8 1B9C                      3023+             DC    Y(OCTAB) .         ADDRESS OF OC OPTION TABLE          38080028
0028DA 0050                      3024+             DC    Y(5*16)  .       KEY OF PROGRAM WITH IT SUPPORT @DA01509 38320029
0028DC 0000                      3025+             DC    H'0' .             NOT USED                            38520028
0028DE 0050                      3026+             DC    Y(5*16)  .          LOGICAL TRANSIENT KEY          RS 38560028
0028E0 000145F4                  3027+             DC    A(SPARMF1)     .       POINTER TO SYSPARM FIELD    LDR 38830028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0028E4 00011E08                   3028+         DC    A(ACCTF1)     .       POINTER TO JA PARTITION TABLE   UL 38960028
0028E8 00001514                   3029+         DC    A(GMTDATE) .        ADDR OF TOD COMMUNICATIONS AREA       39120028
0028EC 18B4                       3030+         DC    Y(PIB2TAB) .        ADDRESS OF PIB EXTENSION              39200028
0028EE 0000                       3031+         DC    Y(0) .              NO MICR SUPPORT                       39280028
0028F0 00000000                   3032+         DC    F'0' .              NO QTAM SUPPORT                       39640028
0028F4 0650                       3033+         DC    Y(BGCOMREG) .       ADDRESS OF BACKGROUND COMREG          39720028
0028F6 10                         3034+         DC    B'00010000'      . OPTION INDICATOR BYTE                  39760028
0028F7 E1                         3035+         DC    B'11100001'                    SYS CNFG.BYT2 @DL30SSM 39800030
0028F8 00000740                   3036+         DC    A(COMRGEXT) .       ADDRESS OF COMREG EXTENSION           39840028
0028FC 70                         3037+         DC    B'01110000'                      .  STD JCS @D349DPS 39842434
0028FD 70                         3038+         DC    B'01110000'                      .  TEM JCS @D349DPS 39844434
0028FE 0F                         3039+         DC    B'00001111'                 DISK CONFIG.BYTE    @D34DDAP 39850034
0028FF 4040404040404040           3040+         DC    CL8' ' .                 PROCEDURE NAME                VB 39852028
002907 00                         3041+         DC    X'0' .                   INTERFACE FLAGS               VB 39853028
002908 40404040404040             3042+         DC    CL7' ' .                 STATEMENT NAME                VB 39854028
00290F 00                         3043+         DC    X'0' .                   153 81 BYTE SYSIN INDICATOR  395 39904028
002910 00000000                   3044+         DC    A(0)                    160 ADDR PART CONTR BLOCK@D30EULR 39906030
002914 00                         3045+         DC    X'0'                    164 POWER/VS FLAG BYTE 1 @D30EULR 39914030
002915 00                         3046+         DC    X'0'                    165 POWER/VS FLAG BYTE 2 @D30EULR 39916030
002916 0000                       3047+         DC    H'0'                    166 RESERVED             @D30EULR 39918030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 3049+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 35430028
                                 3050+*                                                                               * 35440028
                                 3051+*        FOREGROUND COMMUNICATIONS REGION.                                      * 35450028
                                 3052+*                                                                               * 35452028
                                 3053+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 35454028

002918                           3055+F2COMREG     DS    0D .              FOREGROUND COMREG                RS 35456028
002918 0000000000000000          3056+             DC    2F'0' .          JOB DATE                             35480028
002920 1000                      3057+             DC    AL2(PPBEGIN)     SUPERVISOR END                @DM11453 35520031
002922 1000                      3058+             DC    AL2(EOSSPR)      END OF STORAGE PROTECTION     @DM11453 35560031
002924 0000000000000000          3059+             DC    11X'00' .        USER SCRATCH AREA                    35600028
00292F 00                        3060+             DC    X'00' .          UPSI BYTE                            35640028
002930 D5D640D5C1D4C540          3061+             DC    CL8'NO NAME' .   JOB NAME                             35680028
002938 00000000                  3062+             DC    A(0) .           HIGHEST STORAGE ADDRESS OF PARTITION 35720028
00293C 00000000                  3063+             DC    A(0) .           END ADDRESS OF LAST PHASE LOADED      35760028
002940 00000000                  3064+             DC    A(0) .           END ADDRESS OF LONGEST PHASE LOADED   35800028
002944 0000                      3065+             DC    H'0' .           LENGTH OF PP LABEL AREA               35840028
002946 0040                      3066+             DC    Y(4*16)  .        PARTITION IDENTIFIER             RS 35880028
002948 00FE6FFF                  3067+             DC    A(8142*2048-1)  .END OF VIRTUAL STORAGE            EM 36120028
00294C FA                        3068+             DC    B'11111010'                .      CONFIG              36160028
00294D 5E                        3069+             DC    B'01011110'                          .   CONFG UL 36200028
00294E 7C                        3070+             DC    B'01111100'                            .     STDJC SW 36240028
00294F D3                        3071+             DC    B'11010011'                      STDJC SW          LAV 36280028
002950 00                        3072+             DC    B'00000000'     .      JCTL SWITCHES               428 36320028
002951 00                        3073+             DC    X'00' .          LINKAGE CONTROL BYTE                 36360028
002952 7C                        3074+             DC    B'01111100'                            .     STDJC SW 36400028
002953 50                        3075+             DC    B'01010000'           .      STDJC SWITCHES          36440028
002954 0000                      3076+             DC    H'0' .           DISK ADDRESS OF LABEL CYLINDER       36480028
002956 1F65                      3077+             DC    Y(FOCL) .        ADDRESS OF FOCL                      36520028
002958 1F6C                      3078+             DC    Y(PUBTAB) .      ADDRESS OF PUB TABLE                 36560028
00295A 254A                      3079+             DC    Y(FAVP) .        ADDRESS OF FAVP                      36600028
00295C 254B                      3080+             DC    Y(JIBTAB) .      ADDRESS OF JIB TABLE                 36640028
00295E 0000                      3081+             DC    Y(0) .           NULL TEB ADDRESS                     36720028
002960 1CCA                      3082+             DC    Y(FICL) .        ADDRESS OF FICL                      36920028
002962 1CD0                      3083+             DC    Y(NICL) .        ADDRESS OF NICL                      36960028
002964 1CD6                      3084+             DC    Y(LUBTAB) .      ADDRESS OF LUB TABLE                 37000028
002966 38                        3085+             DC    AL1(56)    .     SYSLIST LINE COUNT                   37040028
002967 F0F0F0F0F0F0F0F0          3086+             DC    9C'0' .          SYSTEM DATE                          37080028
002970 0000                      3087+             DC    H'0' .           LIOCS COMMUNICATION BYTES            37120028
002972 19B4                      3088+             DC    Y(PIBTAB) .      ADDRESS OF PIB TABLE                 37160028
002974 0000                      3089+             DC    H'0' .           LAST CHECKPOINT NUMBER               37200028
002976 FED4                      3090+             DC    AL2(65236) .        JOB ZONE IN MINUTES           428 37240028
002978 2C78                      3091+             DC    Y(DSKPOSF2)     .     FG DIB POINTER                UL 37320028
00297A 0000                      3092+             DC    H'0' .           RESERVED                             37520028
00297C 1AAC                      3093+             DC    Y(PCTAB) .       ADDRESS OF PC OPTION TABLE           37600028
00297E 1B2C                      3094+             DC    Y(ITTAB) .       ADDRESS OF IT OPTION TABLE           37840028
002980 1B9C                      3095+             DC    Y(OCTAB) .       ADDRESS OF OC OPTION TABLE           38080028
002982 0040                      3096+             DC    Y(4*16)  .      KEY OF PROGRAM WITH IT SUPPORT @DA01509 38320029
002984 0000                      3097+             DC    H'0' .           NOT USED                             38520028
002986 0040                      3098+             DC    Y(4*16)  .        LOGICAL TRANSIENT KEY            RS 38560028
002988 000145FD                  3099+             DC    A(SPARMF2)     .       POINTER TO SYSPARM FIELD      LDR 38830028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00298C 00011C60                   3100+         DC    A(ACCTF2)     .       POINTER TO JA PARTITION TABLE   UL 38960028
002990 00001514                   3101+         DC    A(GMTDATE) .        ADDR OF TOD COMMUNICATIONS AREA       39120028
002994 18B4                       3102+         DC    Y(PIB2TAB) .        ADDRESS OF PIB EXTENSION              39200028
002996 0000                       3103+         DC    Y(0) .              NO MICR SUPPORT                       39280028
002998 00000000                   3104+         DC    F'0' .              NO QTAM SUPPORT                       39640028
00299C 0650                       3105+         DC    Y(BGCOMREG) .       ADDRESS OF BACKGROUND COMREG          39720028
00299E 10                         3106+         DC    B'00010000'      . OPTION INDICATOR BYTE                  39760028
00299F E1                         3107+         DC    B'11100001'                    SYS CNFG.BYT2 @DL30SSM 39800030
0029A0 00000740                   3108+         DC    A(COMRGEXT) .       ADDRESS OF COMREG EXTENSION           39840028
0029A4 70                         3109+         DC    B'01110000'                      .  STD JCS @D349DPS 39842434
0029A5 70                         3110+         DC    B'01110000'                      .  TEM JCS @D349DPS 39844434
0029A6 0F                         3111+         DC    B'00001111'                 DISK CONFIG.BYTE    @D34DDAP 39850034
0029A7 4040404040404040           3112+         DC    CL8' ' .              PROCEDURE NAME                VB 39852028
0029AF 00                         3113+         DC    X'0' .                INTERFACE FLAGS               VB 39853028
0029B0 40404040404040             3114+         DC    CL7' ' .              STATEMENT NAME                VB 39854028
0029B7 00                         3115+         DC    X'0' .                153 81 BYTE SYSIN INDICATOR  395 39904028
0029B8 00000000                   3116+         DC    A(0)                160 ADDR PART CONTR BLOCK@D30EULR 39906030
0029BC 00                         3117+         DC    X'0'                164 POWER/VS FLAG BYTE 1 @D30EULR 39914030
0029BD 00                         3118+         DC    X'0'                165 POWER/VS FLAG BYTE 2 @D30EULR 39916030
0029BE 0000                       3119+         DC    H'0'                166 RESERVED             @D30EULR 39918030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 3121+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 35430028
                                 3122+*                                                                             * 35440028
                                 3123+*        FOREGROUND COMMUNICATIONS REGION.                                    * 35450028
                                 3124+*                                                                             * 35452028
                                 3125+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 35454028

0029C0                           3127+F3COMREG     DS    0D .              FOREGROUND COMREG                RS 35456028
0029C0 0000000000000000          3128+             DC    2F'0' .          JOB DATE                             35480028
0029C8 1000                      3129+             DC    AL2(PPBEGIN)     SUPERVISOR END                @DM11453 35520031
0029CA 1000                      3130+             DC    AL2(EOSSPR)      END OF STORAGE PROTECTION     @DM11453 35560031
0029CC 0000000000000000          3131+             DC    11X'00' .        USER SCRATCH AREA                    35600028
0029D7 00                        3132+             DC    X'00' .          UPSI BYTE                            35640028
0029D8 D5D640D5C1D4C540          3133+             DC    CL8'NO NAME' .   JOB NAME                             35680028
0029E0 00000000                  3134+             DC    A(0) .           HIGHEST STORAGE ADDRESS OF PARTITION 35720028
0029E4 00000000                  3135+             DC    A(0) .           END ADDRESS OF LAST PHASE LOADED      35760028
0029E8 00000000                  3136+             DC    A(0) .           END ADDRESS OF LONGEST PHASE LOADED   35800028
0029EC 0000                      3137+             DC    H'0' .           LENGTH OF PP LABEL AREA               35840028
0029EE 0030                      3138+             DC    Y(3*16)  .        PARTITION IDENTIFIER              RS 35880028
0029F0 00FE6FFF                  3139+             DC    A(8142*2048-1)  .END OF VIRTUAL STORAGE             EM 36120028
0029F4 FA                        3140+             DC    B'11111010'                .      CONFIG               36160028
0029F5 5E                        3141+             DC    B'01011110'                          .   CONFG UL 36200028
0029F6 7C                        3142+             DC    B'01111100'                            .     STDJC SW 36240028
0029F7 D3                        3143+             DC    B'11010011'                      STDJC SW          LAV 36280028
0029F8 00                        3144+             DC    B'00000000'     .      JCTL SWITCHES                428 36320028
0029F9 00                        3145+             DC    X'00' .          LINKAGE CONTROL BYTE                 36360028
0029FA 7C                        3146+             DC    B'01111100'                          .      STDJC SW 36400028
0029FB 50                        3147+             DC    B'01010000'           .      STDJC SWITCHES          36440028
0029FC 0000                      3148+             DC    H'0' .          DISK ADDRESS OF LABEL CYLINDER        36480028
0029FE 1F65                      3149+             DC    Y(FOCL) .        ADDRESS OF FOCL                      36520028
002A00 1F6C                      3150+             DC    Y(PUBTAB) .      ADDRESS OF PUB TABLE                 36560028
002A02 254A                      3151+             DC    Y(FAVP) .        ADDRESS OF FAVP                      36600028
002A04 254B                      3152+             DC    Y(JIBTAB) .      ADDRESS OF JIB TABLE                 36640028
002A06 0000                      3153+             DC    Y(0) .           NULL TEB ADDRESS                     36720028
002A08 1CCA                      3154+             DC    Y(FICL) .        ADDRESS OF FICL                      36920028
002A0A 1CD0                      3155+             DC    Y(NICL) .        ADDRESS OF NICL                      36960028
002A0C 1CD6                      3156+             DC    Y(LUBTAB) .      ADDRESS OF LUB TABLE                 37000028
002A0E 38                        3157+             DC    AL1(56)    .     SYSLIST LINE COUNT                   37040028
002A0F F0F0F0F0F0F0F0F0          3158+             DC    9C'0' .          SYSTEM DATE                          37080028
002A18 0000                      3159+             DC    H'0' .           LIOCS COMMUNICATION BYTES            37120028
002A1A 19B4                      3160+             DC    Y(PIBTAB) .      ADDRESS OF PIB TABLE                 37160028
002A1C 0000                      3161+             DC    H'0' .           LAST CHECKPOINT NUMBER               37200028
002A1E FED4                      3162+             DC    AL2(65236) .        JOB ZONE IN MINUTES            428 37240028
002A20 2C00                      3163+             DC    Y(DSKPOSF3)     .     FG DIB POINTER                 UL 37320028
002A22 0000                      3164+             DC    H'0' .           RESERVED                             37520028
002A24 1AAC                      3165+             DC    Y(PCTAB) .       ADDRESS OF PC OPTION TABLE           37600028
002A26 1B2C                      3166+             DC    Y(ITTAB) .       ADDRESS OF IT OPTION TABLE           37840028
002A28 1B9C                      3167+             DC    Y(OCTAB) .       ADDRESS OF OC OPTION TABLE           38080028
002A2A 0030                      3168+             DC    Y(3*16)  .      KEY OF PROGRAM WITH IT SUPPORT @DA01509 38320029
002A2C 0000                      3169+             DC    H'0' .           NOT USED                             38520028
002A2E 0030                      3170+             DC    Y(3*16)  .        LOGICAL TRANSIENT KEY            RS 38560028
002A30 00014606                  3171+             DC    A(SPARMF3)     .       POINTER TO SYSPARM FIELD      LDR 38830028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002A34 00011AB8                   3172+         DC    A(ACCTF3)     .       POINTER TO JA PARTITION TABLE   UL 38960028
002A38 00001514                   3173+         DC    A(GMTDATE) .       ADDR OF TOD COMMUNICATIONS AREA       39120028
002A3C 18B4                       3174+         DC    Y(PIB2TAB) .       ADDRESS OF PIB EXTENSION              39200028
002A3E 0000                       3175+         DC    Y(0) .             NO MICR SUPPORT                       39280028
002A40 00000000                   3176+         DC    F'0' .             NO QTAM SUPPORT                       39640028
002A44 0650                       3177+         DC    Y(BGCOMREG) .      ADDRESS OF BACKGROUND COMREG          39720028
002A46 10                         3178+         DC    B'00010000'      . OPTION INDICATOR BYTE                 39760028
002A47 E1                         3179+         DC    B'11100001'                    SYS CNFG.BYT2 @DL30SSM 39800030
002A48 00000740                   3180+         DC    A(COMRGEXT) .      ADDRESS OF COMREG EXTENSION         39840028
002A4C 70                         3181+         DC    B'01110000'                      .  STD JCS @D349DPS 39842434
002A4D 70                         3182+         DC    B'01110000'                      .  TEM JCS @D349DPS 39844434
002A4E 0F                         3183+         DC    B'00001111'                 DISK CONFIG.BYTE    @D34DDAP 39850034
002A4F 4040404040404040           3184+         DC    CL8' ' .              PROCEDURE NAME                VB 39852028
002A57 00                         3185+         DC    X'0' .                INTERFACE FLAGS               VB 39853028
002A58 40404040404040             3186+         DC    CL7' ' .              STATEMENT NAME                VB 39854028
002A5F 00                         3187+         DC    X'0' .                153 81 BYTE SYSIN INDICATOR  395 39904028
002A60 00000000                   3188+         DC    A(0)                160 ADDR PART CONTR BLOCK@D30EULR 39906030
002A64 00                         3189+         DC    X'0'                164 POWER/VS FLAG BYTE 1 @D30EULR 39914030
002A65 00                         3190+         DC    X'0'                165 POWER/VS FLAG BYTE 2 @D30EULR 39916030
002A66 0000                       3191+         DC    H'0'                166 RESERVED             @D30EULR 39918030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 3193+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 35430028
                                 3194+*                                                                           * 35440028
                                 3195+*        FOREGROUND COMMUNICATIONS REGION.                                  * 35450028
                                 3196+*                                                                           * 35452028
                                 3197+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 35454028

002A68                           3199+F4COMREG     DS    0D .              FOREGROUND COMREG                RS 35456028
002A68 0000000000000000          3200+             DC    2F'0' .          JOB DATE                             35480028
002A70 1000                      3201+             DC    AL2(PPBEGIN)     SUPERVISOR END                @DM11453 35520031
002A72 1000                      3202+             DC    AL2(EOSSPR)      END OF STORAGE PROTECTION     @DM11453 35560031
002A74 0000000000000000          3203+             DC    11X'00' .        USER SCRATCH AREA                    35600028
002A7F 00                        3204+             DC    X'00' .          UPSI BYTE                            35640028
002A80 D5D640D5C1D4C540          3205+             DC    CL8'NO NAME' .   JOB NAME                             35680028
002A88 00000000                  3206+             DC    A(0) .           HIGHEST STORAGE ADDRESS OF PARTITION 35720028
002A8C 00000000                  3207+             DC    A(0) .           END ADDRESS OF LAST PHASE LOADED      35760028
002A90 00000000                  3208+             DC    A(0) .           END ADDRESS OF LONGEST PHASE LOADED   35800028
002A94 0000                      3209+             DC    H'0' .           LENGTH OF PP LABEL AREA               35840028
002A96 0020                      3210+             DC    Y(2*16)  .        PARTITION IDENTIFIER             RS 35880028
002A98 00FE6FFF                  3211+             DC    A(8142*2048-1)  .END OF VIRTUAL STORAGE            EM 36120028
002A9C FA                        3212+             DC    B'11111010'                .     CONFIG               36160028
002A9D 5E                        3213+             DC    B'01011110'                           .   CONFG UL 36200028
002A9E 7C                        3214+             DC    B'01111100'                             .     STDJC SW 36240028
002A9F D3                        3215+             DC    B'11010011'                       STDJC SW          LAV 36280028
002AA0 00                        3216+             DC    B'00000000'     .      JCTL SWITCHES                428 36320028
002AA1 00                        3217+             DC    X'00' .          LINKAGE CONTROL BYTE                 36360028
002AA2 7C                        3218+             DC    B'01111100'                             .     STDJC SW 36400028
002AA3 50                        3219+             DC    B'01010000'           .      STDJC SWITCHES           36440028
002AA4 0000                      3220+             DC    H'0' .          DISK ADDRESS OF LABEL CYLINDER        36480028
002AA6 1F65                      3221+             DC    Y(FOCL) .        ADDRESS OF FOCL                      36520028
002AA8 1F6C                      3222+             DC    Y(PUBTAB) .      ADDRESS OF PUB TABLE                 36560028
002AAA 254A                      3223+             DC    Y(FAVP) .        ADDRESS OF FAVP                      36600028
002AAC 254B                      3224+             DC    Y(JIBTAB) .      ADDRESS OF JIB TABLE                 36640028
002AAE 0000                      3225+             DC    Y(0) .           NULL TEB ADDRESS                     36720028
002AB0 1CCA                      3226+             DC    Y(FICL) .        ADDRESS OF FICL                      36920028
002AB2 1CD0                      3227+             DC    Y(NICL) .        ADDRESS OF NICL                      36960028
002AB4 1CD6                      3228+             DC    Y(LUBTAB) .      ADDRESS OF LUB TABLE                 37000028
002AB6 38                        3229+             DC    AL1(56)    .     SYSLIST LINE COUNT                   37040028
002AB7 F0F0F0F0F0F0F0F0          3230+             DC    9C'0' .          SYSTEM DATE                          37080028
002AC0 0000                      3231+             DC    H'0' .           LIOCS COMMUNICATION BYTES            37120028
002AC2 19B4                      3232+             DC    Y(PIBTAB) .      ADDRESS OF PIB TABLE                 37160028
002AC4 0000                      3233+             DC    H'0' .           LAST CHECKPOINT NUMBER               37200028
002AC6 FED4                      3234+             DC    AL2(65236) .        JOB ZONE IN MINUTES           428 37240028
002AC8 2B88                      3235+             DC    Y(DSKPOSF4)     .     FG DIB POINTER                UL 37320028
002ACA 0000                      3236+             DC    H'0' .           RESERVED                             37520028
002ACC 1AAC                      3237+             DC    Y(PCTAB) .       ADDRESS OF PC OPTION TABLE           37600028
002ACE 1B2C                      3238+             DC    Y(ITTAB) .       ADDRESS OF IT OPTION TABLE           37840028
002AD0 1B9C                      3239+             DC    Y(OCTAB) .       ADDRESS OF OC OPTION TABLE           38080028
002AD2 0020                      3240+             DC    Y(2*16)  .      KEY OF PROGRAM WITH IT SUPPORT @DA01509 38320029
002AD4 0000                      3241+             DC    H'0' .           NOT USED                             38520028
002AD6 0020                      3242+             DC    Y(2*16)  .        LOGICAL TRANSIENT KEY            RS 38560028
002AD8 0001460F                  3243+             DC    A(SPARMF4)     .       POINTER TO SYSPARM FIELD      LDR 38830028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002ADC 00011910                   3244+         DC    A(ACCTF4)     .       POINTER TO JA PARTITION TABLE   UL 38960028
002AE0 00001514                   3245+         DC    A(GMTDATE) .        ADDR OF TOD COMMUNICATIONS AREA       39120028
002AE4 18B4                       3246+         DC    Y(PIB2TAB) .        ADDRESS OF PIB EXTENSION              39200028
002AE6 0000                       3247+         DC    Y(0) .              NO MICR SUPPORT                       39280028
002AE8 00000000                   3248+         DC    F'0' .              NO QTAM SUPPORT                       39640028
002AEC 0650                       3249+         DC    Y(BGCOMREG) .       ADDRESS OF BACKGROUND COMREG          39720028
002AEE 10                         3250+         DC    B'00010000'      . OPTION INDICATOR BYTE                  39760028
002AEF E1                         3251+         DC    B'11100001'                    SYS CNFG.BYT2 @DL30SSM 39800030
002AF0 00000740                   3252+         DC    A(COMRGEXT) .       ADDRESS OF COMREG EXTENSION           39840028
002AF4 70                         3253+         DC    B'01110000'                       .  STD JCS @D349DPS 39842434
002AF5 70                         3254+         DC    B'01110000'                       .  TEM JCS @D349DPS 39844434
002AF6 0F                         3255+         DC    B'00001111'                  DISK CONFIG.BYTE    @D34DDAP 39850034
002AF7 4040404040404040           3256+         DC    CL8' ' .               PROCEDURE NAME                VB 39852028
002AFF 00                         3257+         DC    X'0' .                 INTERFACE FLAGS               VB 39853028
002B00 40404040404040             3258+         DC    CL7' ' .               STATEMENT NAME                VB 39854028
002B07 00                         3259+         DC    X'0' .                 153 81 BYTE SYSIN INDICATOR  395 39904028
002B08 00000000                   3260+         DC    A(0)                 160 ADDR PART CONTR BLOCK@D30EULR 39906030
002B0C 00                         3261+         DC    X'0'                 164 POWER/VS FLAG BYTE 1 @D30EULR 39914030
002B0D 00                         3262+         DC    X'0'                 165 POWER/VS FLAG BYTE 2 @D30EULR 39916030
002B0E 0000                       3263+         DC    H'0'                 166 RESERVED             @D30EULR 39918030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                  3266+*********************************************************************** 40150028
                                  3267+*        BG DIB ENTRIES                                               * 40160028
                                  3268+*********************************************************************** 40170028


                                  3270+*        SYSLINK DIB ENTRY                                              40280028

002B10                            3272+DSKPOSBG      DS 0H .                                                VB 40291028
002B10                            3273+         DS    0H                                                IB3.0 40300028
002B10 00000000000000             3274+         DC    XL7'00' .          SYSLINK DIB ENTRY CCHH000          UL 40320034
002B17 FFFF                       3275+         DC    2X'FF' .           STARTING ADDRESS PCIL CILYNDER        40400028
002B19 00                         3276+         DC    X'00' .            UNUSED                                40440028
002B1A 0000000000000000           3277+         DC    7H'0' .            UNUSED PORTION OF SYSLINK             40520028

                                  3279+*        SYSIN DIBENTRY                                                 40600028

002B28 00000000000000             3281+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR               40640028
002B2F 000050                     3282+         DC    X'000050' .        KEY AND DATA LENGTH KDD               40680028
002B32 00000000000000             3283+         DC    7X'00' .           END ADDRESS BBCCHHR                VB 40720028
002B39 0000                       3284+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT            40800028
002B3B 19                         3285+         DC    X'19' .            MAXIMUM NUMBER OF RECORDS          VB 40840028
002B3C 0000                       3286+         DC    2X'00' .           RECORD COUNT                          40880028
002B3E 0000                       3287+         DC    2X'00' .           RESERVED                              40920028

                                  3289+*        SYSPUNCH DIBENTRY                                              41000028

002B40 00000000000000             3291+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR               41040028
002B47 000051                     3292+         DC    X'000051' .        KEY AND DATA LENGTH KDD               41080028
002B4A 00000000000000             3293+         DC    7X'00' .           END ADDRESS BBCCHHR                VB 41120028
002B51 0000                       3294+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT            41200028
002B53 19                         3295+         DC    X'19' .            MAXIMUM NUMBER OF RECORDS          VB 41240028
002B54 0064                       3296+         DC    AL2(100)   .       RECORD COUNT                  @DA02778 41280031
002B56 0000                       3297+         DC    2X'00' .           RESERVED                              41320028

                                  3299+*        SYSLIST DIBENTRY                                               41400028

002B58 00000000000000             3301+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR               41440028
002B5F 000079                     3302+         DC    X'000079' .        KEY AND DATA LENGTH KDD               41480028
002B62 00000000000000             3303+         DC    7X'00' .           END ADDRESS BBCCHHR                VB 41520028
002B69 0000                       3304+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT            41600028
002B6B 13                         3305+         DC    X'13' .            MAXIMUM NUMBER OF RECORDS          VB 41640028
002B6C 0064                       3306+         DC    AL2(100)   .       RECORD COUNT                  @DA02778 41680031
002B6E 0000                       3307+         DC    2X'00' .           RESERVED                              41720028

                                  3309+*        PROCEDURE DIB ENTRY                                         VB 41800228

002B70 00000000000000             3311+         DC    7X'0' .                CURRENT ADDRESS BBCCHHR        VB 41801028
002B77 000050                     3312+         DC    XL3'50' .              KEY DATA LENGTH                VB 41802028
002B7A 00000000000000             3313+         DC    7X'0' .                END ADDRESS BBCCHHR            VB 41803028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002B81 0000                      3314+         DC    XL2'0' .              UPPER AND LOWER HEAD LIMIT    VB 41804028
002B83 19                        3315+         DC    X'19' .               MAXIMUM NUMBER OF RECORDS     VB 41805028
002B84 0000                      3316+         DC    XL2'0' .              RECORD COUNT                  VB 41806028
002B86 0000                      3317+         DC    XL2'0' .              RESERVED                      VB 41810028


                                 3319+*************************************************************************** 41930028
                                 3320+*        FG PARTITION DIB ENTRIES                                       * 41960028
                                 3321+*************************************************************************** 42012028


                                 3323+*        SYSLINK DIB ENTRY                                                40280028

002B88                           3325+DSKPOSF4      DS 0H .                                                  VB 40291028
002B88                           3326+         DS    0H                                                  IB3.0 40300028
002B88 00000000000000            3327+         DC    XL7'00' .          SYSLINK DIB ENTRY CCHH000           UL 40320034
002B8F FFFF                      3328+         DC    2X'FF' .           STARTING ADDRESS PCIL CILYNDER        40400028
002B91 00                        3329+         DC    X'00' .            UNUSED                                40440028
002B92 0000000000000000          3330+         DC    7H'0' .            UNUSED PORTION OF SYSLINK             40520028

                                 3332+*        SYSIN DIBENTRY                                                   40600028

002BA0 00000000000000            3334+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR               40640028
002BA7 000050                    3335+         DC    X'000050' .        KEY AND DATA LENGTH KDD               40680028
002BAA 00000000000000            3336+         DC    7X'00' .           END ADDRESS BBCCHHR                VB 40720028
002BB1 0000                      3337+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT            40800028
002BB3 19                        3338+         DC    X'19' .            MAXIMUM NUMBER OF RECORDS          VB 40840028
002BB4 0000                      3339+         DC    2X'00' .           RECORD COUNT                          40880028
002BB6 0000                      3340+         DC    2X'00' .           RESERVED                              40920028

                                 3342+*        SYSPUNCH DIBENTRY                                                41000028

002BB8 00000000000000            3344+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR               41040028
002BBF 000051                    3345+         DC    X'000051' .        KEY AND DATA LENGTH KDD               41080028
002BC2 00000000000000            3346+         DC    7X'00' .           END ADDRESS BBCCHHR                VB 41120028
002BC9 0000                      3347+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT            41200028
002BCB 19                        3348+         DC    X'19' .            MAXIMUM NUMBER OF RECORDS          VB 41240028
002BCC 0064                      3349+         DC    AL2(100)   .       RECORD COUNT                  @DA02778 41280031
002BCE 0000                      3350+         DC    2X'00' .           RESERVED                              41320028

                                 3352+*        SYSLIST DIBENTRY                                                 41400028

002BD0 00000000000000            3354+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR               41440028
002BD7 000079                    3355+         DC    X'000079' .        KEY AND DATA LENGTH KDD               41480028
002BDA 00000000000000            3356+         DC    7X'00' .           END ADDRESS BBCCHHR                VB 41520028
002BE1 0000                      3357+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT            41600028
002BE3 13                        3358+         DC    X'13' .            MAXIMUM NUMBER OF RECORDS          VB 41640028
002BE4 0064                      3359+         DC    AL2(100)   .       RECORD COUNT                  @DA02778 41680031
002BE6 0000                      3360+         DC    2X'00' .           RESERVED                              41720028

                                 3362+*        PROCEDURE DIB ENTRY                                           VB 41800228
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002BE8 00000000000000             3364+         DC    7X'0' .              CURRENT ADDRESS BBCCHHR       VB 41801028
002BEF 000050                     3365+         DC    XL3'50' .            KEY DATA LENGTH               VB 41802028
002BF2 00000000000000             3366+         DC    7X'0' .              END ADDRESS BBCCHHR           VB 41803028
002BF9 0000                       3367+         DC    XL2'0' .             UPPER AND LOWER HEAD LIMIT    VB 41804028
002BFB 19                         3368+         DC    X'19' .              MAXIMUM NUMBER OF RECORDS     VB 41805028
002BFC 0000                       3369+         DC    XL2'0' .             RECORD COUNT                  VB 41806028
002BFE 0000                       3370+         DC    XL2'0' .             RESERVED                      VB 41810028

                                  3372+*********************************************************************** 41930028
                                  3373+*        FG PARTITION DIB ENTRIES                                   * 41960028
                                  3374+*********************************************************************** 42012028

                                  3376+*        SYSLINK DIB ENTRY                                            40280028

002C00                            3378+DSKPOSF3      DS 0H .                                            VB 40291028
002C00                            3379+         DS    0H                                               IB3.0 40300028
002C00 00000000000000             3380+         DC    XL7'00' .          SYSLINK DIB ENTRY CCHH000       UL 40320034
002C07 FFFF                       3381+         DC    2X'FF' .           STARTING ADDRESS PCIL CILYNDER    40400028
002C09 00                         3382+         DC    X'00' .            UNUSED                            40440028
002C0A 0000000000000000           3383+         DC    7H'0' .            UNUSED PORTION OF SYSLINK         40520028

                                  3385+*        SYSIN DIBENTRY                                               40600028

002C18 00000000000000             3387+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR           40640028
002C1F 000050                     3388+         DC    X'000050' .        KEY AND DATA LENGTH KDD           40680028
002C22 00000000000000             3389+         DC    7X'00' .           END ADDRESS BBCCHHR            VB 40720028
002C29 0000                       3390+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT        40800028
002C2B 19                         3391+         DC    X'19' .            MAXIMUM NUMBER OF RECORDS      VB 40840028
002C2C 0000                       3392+         DC    2X'00' .           RECORD COUNT                      40880028
002C2E 0000                       3393+         DC    2X'00' .           RESERVED                          40920028

                                  3395+*        SYSPUNCH DIBENTRY                                            41000028

002C30 00000000000000             3397+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR           41040028
002C37 000051                     3398+         DC    X'000051' .        KEY AND DATA LENGTH KDD           41080028
002C3A 00000000000000             3399+         DC    7X'00' .           END ADDRESS BBCCHHR            VB 41120028
002C41 0000                       3400+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT        41200028
002C43 19                         3401+         DC    X'19' .            MAXIMUM NUMBER OF RECORDS      VB 41240028
002C44 0064                       3402+         DC    AL2(100)   .       RECORD COUNT                 @DA02778 41280031
002C46 0000                       3403+         DC    2X'00' .           RESERVED                          41320028

                                  3405+*        SYSLIST DIBENTRY                                             41400028

002C48 00000000000000             3407+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR           41440028
002C4F 000079                     3408+         DC    X'000079' .        KEY AND DATA LENGTH KDD           41480028
002C52 00000000000000             3409+         DC    7X'00' .           END ADDRESS BBCCHHR            VB 41520028
002C59 0000                       3410+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT        41600028
002C5B 13                         3411+         DC    X'13' .            MAXIMUM NUMBER OF RECORDS      VB 41640028
002C5C 0064                       3412+         DC    AL2(100)   .       RECORD COUNT                 @DA02778 41680031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002C5E 0000                       3413+         DC    2X'00' .           RESERVED                                  41720028

                                  3415+*        PROCEDURE DIB ENTRY                                          VB 41800228

002C60 00000000000000             3417+         DC    7X'0' .                CURRENT ADDRESS BBCCHHR            VB 41801028
002C67 000050                     3418+         DC    XL3'50' .              KEY DATA LENGTH                    VB 41802028
002C6A 00000000000000             3419+         DC    7X'0' .                END ADDRESS BBCCHHR                VB 41803028
002C71 0000                       3420+         DC    XL2'0' .               UPPER AND LOWER HEAD LIMIT         VB 41804028
002C73 19                         3421+         DC    X'19' .                MAXIMUM NUMBER OF RECORDS          VB 41805028
002C74 0000                       3422+         DC    XL2'0' .               RECORD COUNT                       VB 41806028
002C76 0000                       3423+         DC    XL2'0' .               RESERVED                           VB 41810028


                                  3425+************************************************************************ 41930028
                                  3426+*        FG PARTITION DIB ENTRIES                                        * 41960028
                                  3427+************************************************************************ 42012028


                                  3429+*        SYSLINK DIB ENTRY                                               40280028

002C78                            3431+DSKPOSF2      DS 0H .                                                  VB 40291028
002C78                            3432+         DS    0H                                                    IB3.0 40300028
002C78 00000000000000             3433+         DC    XL7'00' .          SYSLINK DIB ENTRY CCHH000             UL 40320034
002C7F FFFF                       3434+         DC    2X'FF' .           STARTING ADDRESS PCIL CILYNDER        40400028
002C81 00                         3435+         DC    X'00' .            UNUSED                                40440028
002C82 0000000000000000           3436+         DC    7H'0' .            UNUSED PORTION OF SYSLINK             40520028

                                  3438+*        SYSIN DIBENTRY                                                40600028

002C90 00000000000000             3440+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR               40640028
002C97 000050                     3441+         DC    X'000050' .        KEY AND DATA LENGTH KDD               40680028
002C9A 00000000000000             3442+         DC    7X'00' .           END ADDRESS BBCCHHR                VB 40720028
002CA1 0000                       3443+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT            40800028
002CA3 19                         3444+         DC    X'19' .            MAXIMUM NUMBER OF RECORDS          VB 40840028
002CA4 0000                       3445+         DC    2X'00' .           RECORD COUNT                          40880028
002CA6 0000                       3446+         DC    2X'00' .           RESERVED                              40920028

                                  3448+*        SYSPUNCH DIBENTRY                                             41000028

002CA8 00000000000000             3450+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR               41040028
002CAF 000051                     3451+         DC    X'000051' .        KEY AND DATA LENGTH KDD               41080028
002CB2 00000000000000             3452+         DC    7X'00' .           END ADDRESS BBCCHHR                VB 41120028
002CB9 0000                       3453+         DC    2X'00' .           UPPER AND LOWER HEAD LIMIT            41200028
002CBB 19                         3454+         DC    X'19' .            MAXIMUM NUMBER OF RECORDS          VB 41240028
002CBC 0064                       3455+         DC    AL2(100)   .       RECORD COUNT                @DA02778 41280031
002CBE 0000                       3456+         DC    2X'00' .           RESERVED                              41320028

                                  3458+*        SYSLIST DIBENTRY                                              41400028

002CC0 00000000000000             3460+         DC    7X'00' .           CURRENT ADDRESS BBCCHHR               41440028
002CC7 000079                     3461+         DC    X'000079' .        KEY AND DATA LENGTH KDD               41480028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002CCA 00000000000000              3462+         DC    7X'00' .          END ADDRESS BBCCHHR                VB 41520028
002CD1 0000                        3463+         DC    2X'00' .          UPPER AND LOWER HEAD LIMIT            41600028
002CD3 13                          3464+         DC    X'13' .           MAXIMUM NUMBER OF RECORDS          VB 41640028
002CD4 0064                        3465+         DC    AL2(100)   .      RECORD COUNT                    @DA02778 41680031
002CD6 0000                        3466+         DC    2X'00' .          RESERVED                              41720028

                                   3468+*        PROCEDURE DIB ENTRY                                         VB 41800228

002CD8 00000000000000              3470+         DC    7X'0' .               CURRENT ADDRESS BBCCHHR       VB 41801028
002CDF 000050                      3471+         DC    XL3'50' .             KEY DATA LENGTH               VB 41802028
002CE2 00000000000000              3472+         DC    7X'0' .               END ADDRESS BBCCHHR           VB 41803028
002CE9 0000                        3473+         DC    XL2'0' .              UPPER AND LOWER HEAD LIMIT    VB 41804028
002CEB 19                          3474+         DC    X'19' .               MAXIMUM NUMBER OF RECORDS     VB 41805028
002CEC 0000                        3475+         DC    XL2'0' .              RECORD COUNT                  VB 41806028
002CEE 0000                        3476+         DC    XL2'0' .              RESERVED                      VB 41810028

                                   3478+************************************************************************ 41930028
                                   3479+*        FG PARTITION DIB ENTRIES                                    * 41960028
                                   3480+************************************************************************ 42012028


                                   3482+*        SYSLINK DIB ENTRY                                             40280028

002CF0                             3484+DSKPOSF1      DS 0H .                                                  VB 40291028
002CF0                             3485+         DS    0H                                                IB3.0 40300028
002CF0 00000000000000              3486+         DC    XL7'00' .         SYSLINK DIB ENTRY CCHH000           UL 40320034
002CF7 FFFF                        3487+         DC    2X'FF' .          STARTING ADDRESS PCIL CILYNDER        40400028
002CF9 00                          3488+         DC    X'00' .           UNUSED                                40440028
002CFA 00000000000000000           3489+         DC    7H'0' .           UNUSED PORTION OF SYSLINK             40520028

                                   3491+*        SYSIN DIBENTRY                                                40600028

002D08 00000000000000              3493+         DC    7X'00' .          CURRENT ADDRESS BBCCHHR               40640028
002D0F 000050                      3494+         DC    X'000050' .       KEY AND DATA LENGTH KDD               40680028
002D12 00000000000000              3495+         DC    7X'00' .          END ADDRESS BBCCHHR                VB 40720028
002D19 0000                        3496+         DC    2X'00' .          UPPER AND LOWER HEAD LIMIT            40800028
002D1B 19                          3497+         DC    X'19' .           MAXIMUM NUMBER OF RECORDS          VB 40840028
002D1C 0000                        3498+         DC    2X'00' .          RECORD COUNT                          40880028
002D1E 0000                        3499+         DC    2X'00' .          RESERVED                              40920028

                                   3501+*        SYSPUNCH DIBENTRY                                             41000028

002D20 00000000000000              3503+         DC    7X'00' .          CURRENT ADDRESS BBCCHHR               41040028
002D27 000051                      3504+         DC    X'000051' .       KEY AND DATA LENGTH KDD               41080028
002D2A 00000000000000              3505+         DC    7X'00' .          END ADDRESS BBCCHHR                VB 41120028
002D31 0000                        3506+         DC    2X'00' .          UPPER AND LOWER HEAD LIMIT            41200028
002D33 19                          3507+         DC    X'19' .           MAXIMUM NUMBER OF RECORDS          VB 41240028
002D34 0064                        3508+         DC    AL2(100)   .      RECORD COUNT                    @DA02778 41280031
002D36 0000                        3509+         DC    2X'00' .          RESERVED                              41320028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   3511+*        SYSLIST DIBENTRY                                                41400028

002D38 00000000000000              3513+         DC    7X'00' .          CURRENT ADDRESS BBCCHHR                 41440028
002D3F 000079                      3514+         DC    X'000079' .       KEY AND DATA LENGTH KDD                 41480028
002D42 00000000000000              3515+         DC    7X'00' .          END ADDRESS BBCCHHR                  VB 41520028
002D49 0000                        3516+         DC    2X'00' .          UPPER AND LOWER HEAD LIMIT              41600028
002D4B 13                          3517+         DC    X'13' .           MAXIMUM NUMBER OF RECORDS            VB 41640028
002D4C 0064                        3518+         DC    AL2(100)   .      RECORD COUNT                @DA02778 41680031
002D4E 0000                        3519+         DC    2X'00' .          RESERVED                                41720028

                                   3521+*        PROCEDURE DIB ENTRY                                             VB 41800228

002D50 00000000000000              3523+         DC    7X'0' .               CURRENT ADDRESS BBCCHHR          VB 41801028
002D57 000050                      3524+         DC    XL3'50' .             KEY DATA LENGTH                  VB 41802028
002D5A 00000000000000              3525+         DC    7X'0' .               END ADDRESS BBCCHHR              VB 41803028
002D61 0000                        3526+         DC    XL2'0' .              UPPER AND LOWER HEAD LIMIT       VB 41804028
002D63 19                          3527+         DC    X'19' .               MAXIMUM NUMBER OF RECORDS        VB 41805028
002D64 0000                        3528+         DC    XL2'0' .              RECORD COUNT                     VB 41806028
002D66 0000                        3529+         DC    XL2'0' .              RESERVED                         VB 41810028


                                   3531+* SUPERVISOR - SMICR - 5745-SC-SUP - REL.34.1                  @DY20268 00820034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          02D68  3533+         USING EXTRTN,RE .        ESTABLISH ADDRESSABILITY              03094228
                          02D68  3534+EXTRTN    EQU   * .                EXTERNAL INTERRUPT CONTINUED          03205028
002D68 9500 0086      00086      3535+         CLI   EXTINTC,ZERO       BYTE 0 MUST BE ZERO EXCEPT   @D34UDFG 03205334
002D6C 4780 E012      02D7A      3536+         BE    EXTRTN1             FOR CPU TIMER INTERRUPT     @D34UDFG 03205534
002D70 9105 0087      00087      3537+         TM    EXTINTC+1,TTIMEB   WAS IT TT INTERRUPT ?        @D34UDFG 03206834
002D74 4710 E136      02E9E      3538+         BO    TTTMR              IF YES, GO TO INTRPT ROUTINE @D34UDFG 03207034
002D78 07F6                      3539+         BR    R6                 IGNORE NOT SUPPORTED INTRPT  @D34UDFG 03208334
                          02D7A  3540+EXTRTN1   EQU   *                  BYTE 0 IS ZERO               @D34UDFG 03208834
                          02D7A  3541+EXTOC     EQU   * .                CHECK FOR OC                      D77 03227028
002D7A 9140 0087      00087      3542+         TM    EXTINTC+1,OPCOM .  WAS IT AN OC INTERRUPT            D77 03235028
002D7E 4710 E100      02E68      3543+         BO    OCINTR .           YES                                   03240028
002D82 9180 0087      00087      3544+EXTTIM   TM    EXTINTC+1,TIMER .  WAS IT A TIMER INTERRUPT              03250028
002D86 0786                      3545+         BCR   Z,R6 .             IGNORE NOT SUPPORTED INTRPT  @D34UDFG 03251534
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  3547+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03261028
                                  3548+*                                                                             * 03266028
                                  3549+*       TIMER INTERRUPT HANDLER.                                              * 03267028
                                  3550+*                                                                             * 03271028
                                  3551+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03276028

002D88 5850 0748           00748  3553+        L     R5,YITREQ          LOAD ADDR OF TIMER REQ TABLE       OW 03279228
002D8C 9834 0050           00050  3554+        LM    R3,R4,SYSTIMER .   LOAD TIMER AND TIME OF DAY              03281034
002D90 5530 B628           01628  3555+        CL    R3,MAXVAL .         PROCESSED INTERRUPT ALREADY @DA00046 03281528
002D94 07D6                       3556+        BCR   NH,R6 .             YES, IGNORE                 @DA00046 03282028
002D96 D203 0050 5001 00050 00001 3557+        MVC   SYSTIMER(L4),1(R5) INSERT NEXT INTERVAL              OW 03282728
002D9C 8A30 0008           00008  3558+        SRA   R3,L8 .             DROP LOW ORDER AND          @DA04919 03284734
002DA0 1333                       3559+        LCR   R3,R3 .             GET POS. VALUE OF TIME      @DA00047 03284834
                                  3560+*                                 SINCE TIMER WENT ZERO       @DA00047 03284934
002DA2 1E43                       3561+        ALR   R4,R3 .             CORRECT TIME OF DAY         @DA04919 03285033
002DA4 BF5F 5001           00001  3562+        ICM   R5,M15,1(R5)       GET INTERVALTO COMPUTE SYSTOD      OW 03286128
002DA8 8850 0008           00008  3563+        SRL   R5,L8              ADJUST IT                          OW 03286228
002DAC 1E45                       3564+        ALR   R4,R5              AND ADD IT                         OW 03286328
002DAE 5040 0054           00054  3565+        ST    R4,SYSTOD .        AND STORE IN SYSTOD                   03286928
002DB2 48A0 B860           01860  3566+        LH    RA,TWTIMS .                                       @DA01261 03289331
002DB6 4580 E0CA           02E32  3567+        BAL   R8,DOCOMPR .       COMPRESS ITREQ TABLE        @DA01261 03289431
002DBA 127A                       3568+        LTR   R7,RA .            LOAD R7 WITH TWTIMS         @DA01261 03289531
002DBC 0786                       3569+        BCR   Z,R6 .             EXIT IF TWTIMS=ZERO         @DA01261 03289631
002DBE 4AA0 06AA           006AA  3570+        AH    RA,YPIBTAB .       USE TWTIMS TO FIND PIB      @DA01261 03289731
002DC2 9500 A001      00001        3571+        CLI   PIBCNCL,ZERO .     BRANCH IF PROGRAM HAS BEEN        520 03299028
002DC6 0776                       3572+        BCR   NE,R6 .            CANCELLED OR TERMINATED     @DA01261 03299131
002DC8 47F0 E068      02DD0       3573+        B     EXTRA                                         @DA01261 03299631
                           02DCC  3574+EXTRETRN EQU   *                                                  OW 03300328
002DCC 4870 0752           00752  3575+        LH    R7,TIK  .          LOAD R7 WITH INTERRUPT KEY  @DA01261 03300431
002DD0 58D0 0894           00894  3576+EXTRA   L     RD,APBASE          GET ASYNCHR.PROC.BASE       @D34RDFG 03300534
                           0E722  3577+        USING SGAP,RD                                       @D34RDFG 03300634
002DD4 4550 D8C6           0EFE8  3578+        BAL   R5,SETPOITA .      GET CORRECT ITTAB ENTRY     @D34RDFG 03300834
                                  3579+        DROP  RD                 REL.ASYNCHR.PROC.BASE       @D34RDFG 03300934
002DD8 9834 7000           00000  3580+        LM    R3,R4,D0(R7) .     LOAD ROUTINE AND SAVE AREA ADDRESS435 03301534
002DDC 1233                       3581+        LTR   R3,R3 .            EXIT ROUTINE AVAILABLE            520 03301634
002DDE 07D6                       3582+        BCR   NH,R6 .            BUSY OR NOT AVAILABLE, EXIT       520 03301734
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 3584+*********************************************************************** 03302034
                                 3585+*        IF FETCH OR THE PAGE MANAGER ARE WORKING FOR THE SAME        * 03302134
                                 3586+*        PARTITION SIMULTANEOUSLY, CONTINUATION WILL CAUSE PROBLEMS   * 03302234
                                 3587+*        THEREFORE EXTERNAL INTERRUPT PROCCESSING IS DELAYED UNTIL    * 03302334
                                 3588+*        THE USER IS SELECTED AGAIN, TO MAKE SURE THAT NO             * 03302434
                                 3589+*        SYTEM TASK IS WORKING IT AT THE SAME TIME.                   * 03302534
                                 3590+*********************************************************************** 03302634

002DE0 9108 A004      00004      3592+         TM    PIBDATFL,CDELEX .  RETURN FROM TASK SELECTION        520 03302834
002DE4 4710 E08A      02DF2      3593+         BO    XTRESUME .         YES RESUME INTERRUPT PROCESSING   520 03302934
002DE8 9601 A000      00000      3594+         OI    PIBFLG,IOCMPL .    MAKE TASK SELECTABLE              520 03304228
002DEC 9608 A004      00004      3595+         OI    PIBDATFL,CDELEX .  DELAY INTERRUPT PROCESSING        520 03304428
002DF0 07F6                      3596+         BR    R6 .               EXIT                              520 03304628
002DF2 94F7 A004      00004      3597+XTRESUME NI    PIBDATFL,XFF-CDELEX TURN OFF DELAY BIT          @D33DDJO 03304733
002DF6 1244                      3598+         LTR   R4,R4 .            TECB REQUEST              @D33DDJO 03304833
002DF8 4740 E0BE      02E26      3599+         BM    PSTTECB .          YES,POST IT TO THE USER   @D33DDJO 03304933
002DFC 9101 A00F      0000F      3600+         TM    PIBFLG2,ABINPR     AB ROUTINE IN PROGRESS    @D33DDJO 03305133
002E00 47E0 E0AA      02E12      3601+         BNO   SKIPABPR           NO                        @D33DDJO 03305233
002E04 58D0 0894            00894 3602+         L     RD,APBASE          GET ASYNCHR.PROC.BASEE    @D34RDFG 03305334
                            0E722 3603+         USING SGAP,RD                                    @D34RDFG 03305434
002E08 4550 D932            0F054 3604+         BAL   R5,GETAB           GET ENTRY IN AB TABLE     @D33DDJO 03305534
                                  3605+         DROP  RD                 REL.ASYNCHR.PROC.BASE     @D34RDFG 03305634
002E0C 9640 7000      00000      3606+         OI    D0(R7),DELTINT     SET INTERRUPT DELAYED BIT @D33DDJO 03305834
002E10 07F6                      3607+         BR    R6                 EXIT TO TASK SELECT       @D33DDJO 03305934
                            02E12 3608+SKIPABPR EQU   *                                          @D33DDJO 03306034
002E12 D500 0753 0751 00753 00751 3609+         CLC   TIK+D1(L1),LIK+D1   LTA OPERATING FOR REQUESTOR @DA01261 03308331
002E18 58D0 0894            00894 3610+         L     RD,APBASE          GET ASYNCHR.PROC.BASE     @D34RDFG 03310434
                            0E722 3611+         USING SGAP,RD                                    @D34RDFG 03311034
002E1C 4770 D89A      0EFBC      3612+         BNE   ITROUT .           LTA NOT OF REQUESTOR,BRANCH @DA01261 03311734
                                  3613+         DROP  RD                 REL.ASYNCHR.PROC.BASE     @D34RDFG 03312034
002E20 9620 0739      00739      3614+         OI    SYSFLAG2,TRINT .   DELAY UNTIL LTA GETS FREE @DA01261 03312331
002E24 07F6                      3615+         BR    R6 .               EXIT                            AC 03312728
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002E26 9680 3002      00002        3617+PSTTECB  OI    D2(R3),TRABIT .    POST TECB                          520 03313928
002E2A D707 7000 7000 00000 00000  3618+         XC    D0(L8,R7),D0(R7) . PURGE TECB SETTIME REQUEST         435 03314028
002E30 07F6                        3619+         BR    R6 .               EXIT                                   03314428
                            02E32  3620+DOCOMPR  EQU   *                                                      HK 03315028
002E32 5850 0748            00748  3621+         L     R5,YITREQ          LOAD ADDR OF IT REQUEST TABLE       OW 03316828
002E36 D200 B861 5000 01861 00000  3622+         MVC   TWTIMS+1(1),0(R5)  SAVE TIK OF SETTIME ISSUER          OW 03317228
002E3C BF4F 5001            00001  3623+         ICM   R4,M15,1(R5)       GET FIRST ELEMENT IN ITREQ TABLE    OW 03317428
002E40 9500 5005      00005        3624+ITRQUP2  CLI   5(R5),ZERO         END OF TABLE REACHED                OW 03317528
002E44 4780 E0F8      02E60        3625+         BE    ITRQUP1            YES GO TO MOVE LAST                 OW 03317628
002E48 BF3F 5006            00006  3626+         ICM   R3,M15,6(R5)       GET INTERVAL                        OW 03317728
002E4C 1B34                        3627+         SR    R3,R4              SUBTRACT FIRST INTERVAL             OW 03317828
002E4E BE3F 5001            00001  3628+         STCM  R3,M15,1(R5)       STORE IT ONE POSITION DOWN          OW 03317928
002E52 D200 5000 5005 00000 00005  3629+         MVC   0(1,R5),5(R5)      MOVE CORRECT IDENTIFIER             OW 03318028
002E58 4155 0005            00005  3630+         LA    R5,5(R5)           GO TO NEXT ENTRY                    OW 03318128
002E5C 47F0 E0D8      02E40        3631+         B     ITRQUP2                                                OW 03318228
002E60 D204 5000 5005 00000 00005  3632+ITRQUP1  MVC   0(5,R5),5(R5)      MOVE MAXVALUE ONE POSITION DOWN     OW 03318328
002E66 07F8                        3633+         BR    R8                                                     OW 03319028

                                   3635+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03320828
                                   3636+*                                                                      * 03320928
                                   3637+*        OPERATOR COMMUNICATIONS INTERRUPT HANDLER.                    * 03321028
                                   3638+*                                                                      * 03321128
                                   3639+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03321328

002E68 1BAA                        3641+OCINTR   SR    RA,RA              ZERO REGISTER FOR IC           @DM02370 03322528
002E6A 43A0 07A3            007A3  3642+         IC    RA,ERPPTR          POINTER TO ERP BLOCK           @DM02370 03323028
002E6E 5AA0 0790            00790  3643+         A     RA,ASYSBLK0        ADD  ADDRESS OFF SYSBLOCKS     @DM02370 03323528
                            00000  3644+         USING SYSBLKS,RA                                        @DM02370 03324028
002E72 58A0 A004            00004  3645+         L     RA,SYSAVAR         GET ERP SAVEAREA               @DM02370 03324528
                            00000  3646+         USING SVEARA,RA                                         @DM02370 03325028
002E76 9102 A009      00009        3647+         TM    SVEPSW+D1,WAITBIT  WAS ERP IN WAIT STATE          @DM02370 03325528
002E7A 47E0 E11E      02E86        3648+         BNO   OCINTR1            NO, NORMAL INTERRUPT           @DM02370 03326528
002E7E 94FD A009      00009        3649+         NI    SVEPSW+D1,XFF-WAITBIT YES MAKE ERP READY          @DM02370 03329028
002E82 47F0 E01A      02D82        3650+         B     EXTTIM             TEST OTHER INTERUPTS           @DM02370 03329528
                            00000  3651+         USING PIBADR,RA          RESTORE ADDRESSIBLITY          @DM02370 03330028
002E86 48A0 06AA            006AA  3652+OCINTR1  LH    RA,YPIBTAB .       POINT TO AR PIB                @DM02370 03338528
002E8A 9601 A008      00008        3653+         OI    ARFLG,EXTRNM1 .    SET FLAG FOR EXT. INTER. KEY        435 03339428
002E8E 9580 A000      00000        3654+         CLI   PIBFLG,NOTACT      ATTENTION ACTIVE               @DM02372 03339628
002E92 4770 E01A      02D82        3655+         BNE   EXTTIM             YES,DON'T DESTROY PIBFLAG      @DM02372 03339828
002E96 9283 A000      00000        3656+         MVI   PIBFLG,READY .     READY ATTN RTN PIB             @DM02372 03340028
002E9A 47F0 E01A      02D82        3657+         B     EXTTIM .           EXIT                                 AC 03340228
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 3659+*************************************************************************** 03351928
                                 3660+*        IN THIS SECTION ALL THOSE CONSTANTS SHOULD BE DEFINED THAT   * 03352028
                                 3661+*        ARE ONLY REFERENCED FROM ROUTINES WHERE REGISTER 14 HAS BEEN * 03352128
                                 3662+*        SET UP AS BASE FOR THE EXTERNAL INTERRUPT HANDLER.           * 03352228
                                 3663+*************************************************************************** 03352328
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  3666+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 64160033
                                  3667+*        TASK TIMER INTERRUPT HANDLER                              *@D33PAGA 66160033
                                  3668+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 68160033
                           02E9E  3669+TTTMR    EQU   *                                                    @D34UDFR 70160034
002E9E 5850 0834           00834  3670+         L     R5,PCBPTR          PTR.TO PCB OF INTERRUPT OWNER@D34UDFR 70210034
                           00000  3671+         USING PCBADR,R5                                           @D34UDFR 70260034
002EA2 58D0 0894           00894  3672+         L     RD,APBASE          LOAD BASE PTR.TO PRTY.CTL.R. @D34UDFR 70610034
                           0E722  3673+         USING SGAP,RD            AP BASE                         @D34UDFR 70615034
002EA6 9140 5000      00000        3674+         TM    PCBFLAG,OWNTIMER    DOES THIS PART. OWN TIMER   @DY20268 70820034
002EAA 4780 E16C      02ED4        3675+         BZ    TTTMR2             NO, DO NOT SCHEDULE          @DY20268 70830034
002EAE 94BF 5000      00000        3676+         NI    PCBFLAG,XFF-OWNTIMER RESET TASK TIMER FLAG      @D34UDFR 70860034
002EB2 9104 A00F      0000F        3677+         TM    PIBFLG2,CNCLD      TASK CANCELED OR TERMINATED  @D33PADO 78760033
002EB6 4780 E15E      02EC6        3678+         BZ    TTTMR1             BRANCH IF NOT CANCL OR TERM  @D33PAGA 78770033
002EBA 9101 A00F      0000F        3679+         TM    PIBFLG2,ABINPR     AB EXIT HAS CONTROL          @D33PAGA 78780033
002EBE 0786                        3680+         BZR   R6                 BRANCH IF NO                 @D33PAGA 78790033
002EC0 9640 07A8      007A8        3681+         OI    ATTTAB,TTWAIT      SET FOR DELAYED INTERRUPT    @D33PAGA 78800033
002EC4 07F6                        3682+         BR    R6                 GO TO EXIT                   @D33PAGA 78810033
002EC6 5870 07A8           007A8   3683+TTTMR1   L     R7,ATTTAB          ADDRESS OF TIMER TABLE       @D34UDFR 78830034
002ECA 9834 7000           00000   3684+         LM    R3,R4,D0(R7)       EXIT ADDR AND SAVE AREA ADDR @D34UDFR 78860034
002ECE 1233                        3685+         LTR   R3,R3              EXIT ADDR POSITIVE           @D33PAGA 82160033
002ED0 4720 D89A      0EFBC        3686+         BP    ITROUT             BRANCH TO EXIT TO USER ROUT  @D33PAGA 84160033
                           02ED4   3687+TTTMR2   EQU   *                                                  @DY20268 84170034
002ED4 B208 0838      00838        3688+         SPT   HTIME              SET TIMER TO HIGH VALUE      @DY20269 84210034
002ED8 07F6                        3689+         BR    R6                 EXIT IN USE OR NOT SPECIFIED @D33PAGA 86160033
                                   3690+         DROP  RD                                                 @D34UDFR 88260034
                                   3691+         DROP  R5                                                 @D34UDFR 88310034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
                                 3693+* SUPERVISOR - IOINTER - 5745-SC-SUP REL. 34.1                @DY20607 00108634
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 3695+*                                                                      01271028
                                 3696+*********************************************************************** 01272028
                                 3697+*                                                                     * 01273028
                                 3698+*        GENERAL FUNCTIONS                                   @DM02683 01274028
                                 3699+*                                                                     * 01275028
                                 3700+*        ALL I/O INTERRUPTIONS ARE HANDLED BY THIS CODE.              * 01276028
                                 3701+*        THE CHANNEL AND DEVICE STATUS ARE ANALYSED. IN CASE OF       * 01277028
                                 3702+*        CHANNEL ERRORS RAS IS ACTIVATED. IN CASE OF DEVICE ERRORS    * 01278028
                                 3703+*        AN ENTRY IS BUILT IN THE ERRORQUEUE AND ERP IS ACTIVATED     * 01279028
                                 3704+*                                                                     * 01280028
                                 3705+*        WHEN NO ERRORS ARE DETECTED (ANY MORE) THE CCB FOR THIS      * 01281028
                                 3706+*        I/O REQUEST IS POSTED COMPLETE AND THE REQUESTING TASK IS    * 01282028
                                 3707+*        TAKEN OUT OF THE WAIT STATE, IF NECESSARY.                   * 01283028
                                 3708+*                                                                     * 01284028
                                 3709+*                                                                     * 01285028
                                 3710+*        REGISTER USAGE                                               * 01286028
                                 3711+*                                                                     * 01287028
                                 3712+*        R1   POINTS TO CCB                                           * 01288028
                                 3713+*        R2   BEFORE PUB IS LOCATED:  'CUU' OF INTERRUPTING DEVICE    * 01289028
                                 3714+*             AFTER PUB IS LOCATED: POINTS TO ERBLOC                  * 01290028
                                 3715+*        R3   POINTS TO PUB                                           * 01291028
                                 3716+*        R4   POINTS TO CHANNELQUEUE ENTRY                            * 01292028
                                 3717+*        R6   EXIT ADDRESS                                            * 01293028
                                 3718+*        R9   BASE REGISTER                                           * 01294028
                                 3719+*        R10  POINTS TO PIB OF REQUESTING TASK                        * 01295028
                                 3720+*        R13  BASE REGISTER OF EXCP ROUTINE                  &D34RDFG* 01295534
                                 3721+*                                                                     * 01296028
                                 3722+*********************************************************************** 01297028
002EDA 4820 00BA           000BA 3723+INTRTN   LH    R2,CHNADR .        LOAD CHANNEL AND UNIT NUMBER @D34RDFG 08550034

                                 3725+*        THE FOLLOWING HOOK DEPENDS ON REG 8 BEING USABLE.          ALF 08700028
                                 3726+*        THE HOOK IS USED BY THE FOLLOWING PDAID ROUTINES           ALF 08750028
                                 3727+*        FOR LINKAGE:   F/L TRACE (TAPE/PRINTER MODE)               ALF 08800028
                                 3728+*                       GSVC TRACE                                  ALF 08850028
                                 3729+*                       I/O TRACE                                   ALF 08900028
                                 3730+*                       QTAM TRACE                                  ALF 08950028
                                 3731+*                       VTAM TRACE                            @DL29H00 08960029

002EDE 47F0 901A      02EF4        3733+PDINTRHK B     NOPDINTR .         BRANCH UNLESS I/O TRACE ACTIVE        09050028
002EE2 5880 0740           00740 3734+         L     R8,PDARPTR .       LOAD BASE REGISTER FOR NEXT INSTR 487 09100028
                           14A60 3735+         USING PDAREA,R8 .        USE R8 AS BASE REGISTER           487 09150028
002EE6 909B 801C           14A7C 3736+         STM   R9,RB,PDREGSAV .   SAVE REGISTERS 9,10,11            ALF 09200028
002EEA 1898                      3737+         LR    R9,R8 .            LOAD PD AREA BASE REGISTER        ALF 09250028
                           14A60 3738+         USING PDAREA,R9 .        USE R9 AS BASE REGISTER           487 09300028
002EEC 45A0 9064           14AC4 3739+         BAL   RA,PDENTRY2 .      GO TO I/O TRACE ROUTINE           ALF 09350028
002EF0 989B 901C           14A7C 3740+         LM    R9,RB,PDREGSAV .   RESTORE REGISTERS                 ALF 09400028
                           00000 3741+         USING SVEARA,R8 .        DECLARE STANDARD ADDRESSING       ALF 09500028
                           02EDA 3742+         USING INTRTN,R9 .        DECLARE STANDARD ADDRESSING       ALF 09550028
                           02EF4 3743+NOPDINTR EQU   * .                END OF PD HOOK                    513 09700028
002EF4 41F0 0006           00006 3744+         LA    RF,D6              HIGHEST SUPPORTED CHANNEL    @DY11696 09950034
002EF8 9506 00BA      000BA        3745+         CLI   CHNADR,D6          HIGHER THAN 6                @DY11696 10300034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002EFC 4720 902A      02F04        3746+          BH    *+D8                YES, TAKE CHNL 6 BUCKET      @DY11696 10310034
002F00 43F0 00BA            000BA  3747+          IC    RF,CHNADR .         INSERT CHANNEL NUMBER                 10350028
002F04 43FF 08FE            008FE  3748+          IC    RF,BUCKDIS(RF) .    CALCULATE DISPLACEMENT                10400028
002F08 5AF0 0728            00728  3749+          A     RF,AREGSAV .        SET POINTER TO CHANNEL BUCKET         10450028
                            00000  3750+          USING REGADR,RF .         DECLARE BASE                        10500028
002F0C 4920 F00A            0000A  3751+          CH    R2,SAVRG2+D2        IS THIS SAME DEVICE          @DY14616 10550034
002F10 4770 99D2      038AC        3752+          BNE   PUBSCAN .           NO, SCAN PUBS                         10650028
002F14 5830 F00C            0000C  3753+          L     R3,SAVRG3           RELOAD PUB ADDRESS           @DY14616 10660034
002F18 BD21 3001            00001  3754+          CLM   R2,M1,PUBCHANN+1    IS THIS THE RIGHT PUB        @DY14616 10710034
002F1C 4780 9A1A      038F4        3755+          BE    HQSCAN              YES, SET UP REGISTERS        @DY14616 10760034
002F20 47F0 99D2      038AC        3756+          B     PUBSCAN             NO, SCAN THE PUBS            @DY14616 10810034
                            02F24  3757+TESTCE    EQU   *                   RETURN FROM PUBSCAN          @DM00069 11200428
002F24 58D0 0884            00884  3758+          L     RD,IOSBASE          BASE REGISTER OF EXCP        @D34RDFG 11200634
                            0D1B4  3759+          USING SGIOS,RD            MAKE EXCP ROUTINE ADDRESSABLE@D34RDFG 11200834
002F28 D606 0041 0041 00041 00041  3760+          OC    CCWDRS(L7),CCWDRS   CHANNEL AVAILABLE INT.       @DA04927 11201234
002F2E 4780 97B6      03690        3761+          BZ    INITRG              YES, RESTART                 @DA04927 11201434
002F32 5880 B510            01510  3762+          L     R8,OLTAPP2 .        GET OLTEP APPENDAGE ADDRESS       506 11202028
002F36 0558                        3763+          BALR  R5,R8 .             CALL OLTEP IF ACTIVE              506 11203028
                            02F38  3764+OLTRET2   EQU   * .                 RETURN HERE FROM OLTEP            506 11205028
002F38 9106 0045      00045        3765+          TM    CHNSTA,CHNCHK .     CHANNEL FAILURE              @DM00069 11250028
002F3C 4780 906E      02F48        3766+          BZ    CHNOK1 .            NO, CONTINUE                      513 11255028
002F40 58F0 0820            00820  3767+          L     RF,RASBASE .        GET BASE FOR RAS ROUTINES         513 11256028
                            0C27A  3768+          USING MCSTRT,RF .         DECLARE BASE                        513 11257028
002F44 47F0 F27C      0C4F6        3769+          B     CCENTRY1 .          GO TO CHANNEL CHECK HANDLER       513 11258028
                            02F48  3770+CHNOK1    EQU   * .                 NO CHANNEL FAILURE                513 11259028
002F48 95FF 3002      00002        3771+          CLI   PUBCHQPT,NOTQUED .                                  IB3.0 11261028
002F4C 4780 9094      02F6E        3772+          BE    CCBNOTAV .          BRANCH IF NO CCB AVAILABLE        IB3.0 11262028
002F50 4BA0 0BDE            00BDE  3773+          SH    RA,PIBDIFF .        GET POINTER TO PIB EXTENSION      IB3.0 11270028
002F54 48F0 A000            00000  3774+          LH    RF,PIBCOMRA .       GET PERTINENT COM REG ADDRESS     IB3.5 11271028
002F58 40F0 0016            00016  3775+          STH   RF,CRADDR+D2 .      STORE IT  FOR LATER REFERENCE     IB3.5 11272028
002F5C D201 067E A00C 0067E 0000C  3776+          MVC   PIK,PIBPIK .        INITIALIZE THE PIK                IB3.0 11280028
002F62 4BA0 06CC            006CC  3777+          SH    RA,YPIB2TAB .       INITIALIZE TIK  ....              IB3.0 11300028
002F66 40A0 0752            00752  3778+          STH   RA,TIK .            ... OF REQUESTING TASK            IB3.0 11310028
002F6A 4AA0 06AA            006AA  3779+          AH    RA,YPIBTAB .        RESTORE POINTER TO PIB            IB3.0 11320028
                            02F6E  3780+CCBNOTAV  EQU   *                                                   IB3.0 11321028
002F6E 9101 0819      00819        3781+          TM    RASFLAGS,RTAIOA .   IS RAS I/O ACTIVE                   HL 11910028
002F72 47E0 90A4      02F7E        3782+          BNO   NOTRTA .            NO,CONTINUE NORMAL TESTING           HL 11920028
002F76 58F0 0820            00820  3783+          L     RF,RASBASE .        GET BASE ADDRESS FOR RAS             HL 11930028
002F7A 47F0 F37C      0C5F6        3784+          B     CCENTRY2 .          GO TO RAS INTERCEPT ROUTINE          HL 11942028
                            02F7E  3785+NOTRTA    EQU   * .                 ENTER HERE FROM CSWSTORD                11942429
002F7E 1211                        3786+          LTR   R1,R1 .             IS THERE A CCB                    506 11960028
002F80 4780 9156      03030        3787+          BZ    NOBTDEQ .           NO GO CHECK STATUS                506 11970028
002F84 9140 100C      0000C        3788+          TM    CCBBY3,APPEN .      IS THERE AN APPENDAGE ROUTINE?          12000028
002F88 4780 9156      03030        3789+          BZ    NOBTDEQ .           NO, SKIP APPENDAGE           @D30EUJH 12050030
                            02F8C  3790+CHCKAPP   EQU   *                                              @DA07609 12760033
002F8C 9140 A00C      0000C        3791+          TM    PIBASS,APPEN .      IS CHANNEL APPENDAGE ALLOWED @DM11426 12800031
002F90 4780 9156      03030        3792+          BZ    NOBTDEQ .           NO, IGNORE APPENDAGE REQUEST @D30EUJH 12850030
                            02F94  3793+ALLOWAPP  EQU   *                                              @D30EUJH 12900030
002F94 920C 087F      0087F        3794+          MVI   RID+1,APPENDID .    IND. FOR PAGE FAULT IN APP.  @D30EUJH 13105030
002F98 9102 0044      00044        3795+          TM    DEVSTA,UNITCK       UNIT CHECK                   @DY15860 13105434
002F9C 4780 90DE      02FB8        3796+          BZ    ALLOW20             NO                           @DY15860 13105534
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002FA0 1FFF                      3797+          SLR   RF,RF              CLEAR                          @DY15860 13105634
002FA2 43F0 00BA           000BA 3798+          IC    RF,CHNADR          INSERT CHANNEL NUMBER          @DY15860 13105734
002FA6 43FF 08FE           008FE 3799+          IC    RF,BUCKDIS(RF)     CALCULATE DISPLACEMENT         @DY15860 13105834
002FAA 5AF0 0728           00728 3800+          A     RF,AREGSAV         SET POINTER TO CHANNEL BUCKET@DY15860 13105934
                           00000 3801+          USING REGADR,RF          DECLARE BASE                 @DY15860 13106034
002FAE 1883                      3802+          LR    R8,R3              TAKE OVER PUB ADDRESS          @DY15860 13106134
002FB0 4B80 08F2           008F2 3803+          SH    R8,H8              ENSURE RESTART THIS PUB ..     @DY15860 13106234
002FB4 5080 F00C           0000C 3804+          ST    R8,SAVRG3          .. TO CLEAR CONT. CONN.        @DY15860 13106334
                           02FB8 3805+ALLOW20   EQU   *                                                @DY15860 13106434
002FB8 BE37 003D           0003D 3806+          STCM  R3,M7,IOOPSW+D5 .  SAVE PUB POINTER FOR PROGR.CHECKH. EM 13106634
                                 3807+*                                 IF PROGR.CHECK IN I/O APP.OCCURS   EM 13106734
002FBC 5010 B6E8           016E8 3808+          ST    R1,BTSAV+4 .       SAVE POINTER TO CCB            @D30EUJH 13106934
002FC0 9160 1006     00006       3809+          TM    CCBCLS,BTTR .      BTAM REQU.FROM VIRT.PROG.          EM 13108434
002FC4 47E0 910E     02FE8       3810+          BNO   GOAPPND .          BRANCH TO APPENDAGE                EM 13108934
002FC8 5800 0040           00040 3811+          L     R0,CCWDRS-1 .      SAVE CCW ADDR.IN CSW               EM 13109834
002FCC 5000 B6E4           016E4 3812+          ST    R0,BTSAV .                                    @DM00607 13110028
002FD0 5890 077C           0077C 3813+          L     R9,ACCWT .         SET BASE FOR CCW-T MOD             EM 13111028
                           06B70 3814+          USING CCWTADR,R9                                            13111428
002FD4 4570 9C5A           077CA 3815+          BAL   R7,CSWTRBTM   .    RETRANSL.CCW-ADDR.                 EM 13112028
                           02EDA 3816+          USING INTRTN,R9 .        RESET STANDARD ADDRESSING             13112428
002FD8 BEF7 0041           00041 3817+          STCM  RF,M7,CCWDRS .     STORE VIRTUAL CCW ADDR.IN CSW@DM02325 13112628
002FDC 5810 101C           0001C 3818+          L     R1,CCBVA .         LOAD POINTER TO VIRT.CCB           EM 13113028
002FE0 58E0 0778           00778 3819+          L     RE,APMGR .         SET BASE FOR PFREE ROUTINE         EM 13115028
                           082E6 3820+          USING PMGRADR,RE                                            13115428
002FE4 4150 E4AA           08790 3821+          LA    R5,SVPFREE .       GET ADDR. OF PFREE ROUTINE            13116028
                                 3822+          DROP  RE                                                    13116428
002FE8 5880 100C           0000C 3823+GOAPPND   L     R8,CCBCSWW-1 .     LOAD APPENDAGE ROUTINE ADDRESS     AM 13167028
002FEC 0578                      3824+          BALR  R7,R8 .            GO TO USERS APPENDAGE ROUTINE      AM 13264531
002FEE 47F0 95E4     034BE       3825+          B     BTRETRL            SKIP CSW PROCESSING           @DM03170 13278731
002FF2 47F0 913E     03018       3826+          B     FASTCE .           BRANCH TO DEQUEUE CCB                HL 13352028
002FF6 4570 9B30           03A0A 3827+          BAL   R7,INTOBR          GET FREE ERROR QUEUE ENTRY    @D34SDAP 13361034
002FFA 1222                      3828+          LTR   R2,R2              ADDR. WILL BE RETURNED IN R2  @D34SDAP 13370034
002FFC 4780 913E     03018       3829+          BZ    FASTCE             R2 IS ZERO IF NO ENTRY FREE   @D34SDAP 13379034
                           00000 3830+          USING ERRQUE,R2          MAKE ENTRY ADDRESSABLE        @D34SDAP 13388034
003000 92AE 200B     0000B       3831+          MVI   ERRQMSG,RMSAE      POST ALTERNATE ENTRY          @D34SDAP 13525134
003004 4030 2008           00008 3832+          STH   R3,ERRQPUB         SAVE PUBADDR                  @D34SDAP 13545134
003008 D207 2000 8000 00000 00000 3833+          MVC   ERRQCSW(L8),D0(R8) SAVE RECORD DATA              @D34SDAP 13565134
00300E 50A0 200C           0000C 3834+          ST    RA,ERRQSEK         SAVE REQUESTORS PIB ADDRESS   @D34SDAP 13585134
003012 D201 2014 B656 00014 01656 3835+          MVC   ERRQSNS(L2),RMSTPER SET UP CALL $$ABERA5         @D34SDAP 13605134
                                 3836+          DROP  R2                                      @DM01435 13715028
003018 9200 087F     0087F       3837+FASTCE    MVI   RID+1,SYSTEMID     SET ROUT.ID.TO I/O INTERR.    @DA06796 13715633
00301C 5810 B6E8           016E8 3838+          L     R1,BTSAV+4 .       RESTORE PONT.TO CCB COPY      @DM00607 13754330
003020 9160 1006     00006       3839+          TM    CCBCLS,BTTR        IS IT TRANSL.BTAM REQU.            EM 13755028
003024 47E0 9156     03030       3840+          BNO   NOBTDEQ .          NO,SKIP INDICATING DEQUEUE REQUEST EM 13756028
003028 5800 B6E4           016E4 3841+          L     R0,BTSAV .         RETRIEVE AND RESTORE          @DM00607 13757028
00302C 5000 0040           00040 3842+          ST    R0,CCWDRS-1 .      CCW ADDR.IN CSW               @DM00607 13758028
                           03030 3843+NOBTDEQ   EQU   *                                         @DA07609 13770033
003030 9500 0045     00045       3844+          CLI   CHNSTA,ZERO        ANY CHANNELSTATUS             @DA07609 13833333
003034 4770 917E     03058       3845+          BNE   UNITCHK           YES,CHECK FOR ERRORS          @DM03715 13850029
003038 950C 0044     00044       3846+          CLI   DEVSTA,CHANEND+DEVEND PURE CHAN.+DEVICE END       @DM03715 13851029
00303C 4780 95EC     034C6       3847+          BE    CHNDRT             YES,SKIP ERROR CHECKING       @DM03715 13852029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003040 9508 0044      00044        3848+         CLI   DEVSTA,CHANEND     PURE CHANNEL END              @DM03715 13854029
003044 4780 95EC      034C6        3849+         BE    CHNDRT .           YES,SKIP ERROR CHECKING                13855029
003048 9504 0044      00044        3850+         CLI   DEVSTA,DEVEND      PURE DEVICE END               @DM03715 13856029
00304C 4780 9296      03170        3851+         BE    CEDETST            YES,SKIP ERROR CHECKING       @DM03715 13857029
003050 9520 0044      00044        3852+         CLI   DEVSTA,CUEND       CONTROL UNIT END ONLY         @DM03715 13858029
003054 4780 97B6      03690        3853+         BE    INITRG             YES,START NEXT PUB            @DM03715 13859029
003058 9102 0044      00044        3854+UNITCHK  TM    DEVSTA,UNITCK .    TEST FOR UNIT CHECK                 EM 14750028
00305C 4710 9A6C      03946        3855+         BO    INTERRUC           YES, GO TO PROCESS            @D34SDAP 14760034
003060 913F 0045      00045        3856+TSTCHN   TM    CHNSTA,PRGPRT+CHDTA+CHCHN+CHNCHK ABNORMAL STAT. @D34SDAP 14850034
003064 4770 9A5C      03936        3857+         BNZ   INTERRCC           YES,SET UP ERROR QUEUE ENTRY  @D34SDAP 14900034
003068 9180 0044      00044        3858+TSTATTN  TM    DEVSTA,ATTENT .    ATTENTION INTERRUPT                 14950028
00306C 4780 925E      03138        3859+         BZ    NOATTENT .         NO                                  15000028
003070 D501 3000 07DC 00000 007DC  3860+         CLC   PUBCHANN,SYSOCDEV  IS THIS THE OPERATOR CONSOLE  @D34EDAP 15100034
003076 4780 91A8      03082        3861+         BE    ITSOCDEV           YES                           @D34EDAP 15100634
00307A 9604 0044      00044        3862+         OI    DEVSTA,DEVEND      FORCE DEQUEUING BY DEVEND     @D34EDAP 15101234
00307E 47F0 925E      03138        3863+         B     NOATTENT           BUT IGNORE ATTENTION          @D34EDAP 15101834
                                   03082  3864+ITSOCDEV EQU   *                                        @D34EDAP 15102434
003082 9500 3004      00004        3865+         CLI   PUBDEVTY,T1052     IS IT A 1052 CONSOLE          @D34EDAP 15103634
003086 4780 91F8      030D2        3866+         BE    MODE1052           YES                           @D34EDAP 15104234
00308A 9110 B8A4      018A4        3867+         TM    CRTFLG1,CRTATTH .  CRT PHASE AWAITING ATTENTION  @DM03681 15292028
00308E 47E0 91C0      0309A        3868+         BNO   NOATWAIT .         NO, SIMULATE DE               @DM03681 15294028
003092 9604 0044      00044        3869+         OI    DEVSTA,DEVEND      FORCE DEQUEUING BY DEVEND     @DM15386 15294733
003096 47F0 95EC      034C6        3870+         B     CHNDRT .           POST CCB                      @DM15386 15295033
00309A 9608 B8A8      018A8        3871+NOATWAIT OI    CRTFLG2,CRTATTPD   FLAG ATTENTION PENDING        @DM15386 15295433
00309E 912C 0044      00044        3872+         TM    DEVSTA,CHANEND+CUEND+DEVEND ATTENTION ALONE      @DM15386 15295533
0030A2 4770 925E      03138        3873+         BNZ   NOATTENT           NO, PROCESS INTERRUPT         @DM15386 15295633
0030A6 910A 0689      00689        3874+         TM    LCBYTE,NEWSUP+FCHQ IGNORE INTERRUPT IF           @DM15386 15295733
0030AA 4770 97B6      03690        3875+         BNZ   INITRG             SUPV OR SCIL UPDATE IN PROG.  @DY20438 15295834
0030AE 9120 B8A4      018A4        3876+         TM    CRTFLG1,CRTFETCH   IS CRT FETCH IN PROGRESS    @DM02897 15296834
0030B2 4710 97B6      03690        3877+         BO    INITRG             YES IGNORE THAT INTERRUPT     @DY20438 15297334
0030B6 9180 B8A8      018A8        3878+         TM    CRTFLG2,CRTBUSY .  CRT BUSY?                     @DM03681 15304028
0030BA 4710 97B6      03690        3879+         BO    INITRG             YES, DO NOT ACTIVATE CRT      @DY20438 15305434
0030BE 58E0 B8A0            018A0  3880+         L     RE,ACRTSAV .       GET ADDR OF CRT SAVE AREAS    @DM03681 15306828
                            121F0  3881+         USING CRTSAV,RE                                      @DM03681 15307228
0030C2 9283 B5D7      015D7        3882+         MVI   CRTFLG,READY .     SET CRT DISPATCHABLE          @DM03681 15308228
0030C6 4170 B08A            0108A  3883+         LA    R7,CRTATTNT .      GET ENTRY TO ATTENTION ROUT   @DM03681 15309628
0030CA 5070 E09C            1228C  3884+         ST    R7,CRTPSW2 .       SET ENTRY POINT               @DM03681 15311028
                                   3885+         DROP  RE                                             @DM03681 15311428
0030CE 47F0 97B6      03690        3886+         B     INITRG             GO TO CHANNEL SCHEDULER       @DY20438 15312434
                            030D2  3887+MODE1052 EQU   *                                              @DM03681 15313828
0030D2 910A 0689      00689        3888+         TM    LCBYTE,NEWSUP+FCHQ IGNORE INTERRUPT IF           @DM15386 15314533
0030D6 0776                        3889+         BCR   NZ,R6 .            SUPV OR SCIL UPDATE IN PROG.  @DM15386 15315233
0030D8 9604 0044      00044        3890+         OI    DEVSTA,DEVEND      FORCE DEQUEUING BY DEVEND     @DM15386 15315933
0030DC 4880 06AA            006AA  3891+         LH    R8,YPIBTAB .       POINT TO AR PIB                   INT 15335934
                                   3892+         DROP  RA .               DROP PIB POINTER                  435 15355934
                            00000  3893+         USING PIBADR,R8 .        DECLARE ALTERNATE PIB POINTER     435 15375934
0030E0 9580 8000      00000        3894+         CLI   PIBFLG,NOTACT .    ATTENTION ACTIVE                  435 15535934
0030E4 4780 9222      030FC        3895+         BE    READAR .           NO MAKE IT READY                  INT 15545934
0030E8 9102 8008      00008        3896+         TM    ARFLG,LTAFCH .     IS THIS SECOND ATTENTION      @DM03444 15565934
0030EC 4780 921A      030F4        3897+         BZ    NOREQCAN .         NO,DONT SETON REQ.CANC.FLAG   @DM03444 15575934
0030F0 9610 8008      00008        3898+         OI    ARFLG,REQCAN .     INDICATE REQUEST CANCEL       @D34ADAP 15585934
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0030F4 9581 8000      00000        3899+NOREQCAN CLI   PIBFLG,LTABND .    IS ATTENTION LTA-BOUND?      @DM03444 15800028
0030F8 4770 9226      03100        3900+          BNE   READAR1            CONTINUE PROCESSING          @DM03444 15850028
0030FC 9283 8000      00000        3901+READAR    MVI   PIBFLG,READY .     ATTACH ATTENTION ROUTINE          435 16000028
003100 9642 8008      00008        3902+READAR1   OI    ARFLG,REQPTA+LTAFCH SETUP TO FETCH ABERRZ        @DM03444 16002328
                                   3903+          DROP  R8                       DROP OLD BASE          @DM11453 16002831
                            00000  3904+          USING PIBADR,RA .        DECLARE STANDARD USING           435 16060028
003104 58D0 0884            00884  3905+IGNORE    L     RD,IOSBASE         SET UP IOS BASE REGISTER     @D34SDAP 16110034
003108 4570 0B20            00B20  3906+          BAL   R7,CQDSP .         SET UP REGISTERS             @D34SDAP 16250034
00310C 5870 0014            00014  3907+          L     R7,CRADDR          GET PARTITION COMREG         @DA07881 16267833
                            00000  3908+          USING COMREG,R7          ADDRESSABILITY               @DA07881 16269833
003110 9120 70A4      000A4        3909+          TM    POWFLG1,POWPART    IS IT POWER/VS PARTITION     @DA07881 16270233
                            00000  3910+          USING CCWADR,R7          RESTORE USING                @DA07881 16270333
003114 47E0 925E      03138        3911+          BNO   NOATTENT .         NO                           @DM05346 16277533
003118 95FE 0045      00045        3912+          CLI   CHNSTA,X'FE'       WAS IT NOT OPERATIONAL       @DY15307 16278134
00311C 4770 925E      03138        3913+          BNE   NOATTENT           NO, DO NOT ENTER APPENDAGE   @DY15307 16278734
003120 1211                        3914+          LTR   R1,R1              IS THERE A CCB ?             @DA07881 16285233
003122 4780 925E      03138        3915+          BZ    NOATTENT .         NO                           @DM05346 16292433
003126 9140 100C      0000C        3916+          TM    CCBBY3,APPEN       IS THERE AN APPENDAGE        @DM05346 16299633
00312A 4780 925E      03138        3917+          BZ    NOATTENT .         NO, BRANCH                   @DM05346 16310833
00312E 5880 100C            0000C  3918+          L     R8,CCBCSWW-1       APPENDAGE ROUTINE ADDR       @DM05346 16313833
003132 0578                        3919+          BALR  R7,R8                                           @DL28101 16321233
003134 4700 925A      03134        3920+          NOP   *                                               @DM05346 16325233
003138 9110 0044      00044        3921+NOATTENT TM    DEVSTA,BUSY .      BUSY BIT ON IN CASE CSW STORED            16342833
00313C 4710 9296      03170        3922+          BO    CEDETST .          IF SO,DON'T GO TO CHNDRT                  16350028
003140 9500 0044      00044        3923+          CLI   DEVSTA,ZERO .      ANY DEVICE STATUS?                        16400028
003144 4770 928C      03166        3924+          BNE   CHEND1 .           YES,CONTINUE INTERRUPT PROCESSING         16500028
003148 9180 0045      00045        3925+          TM    CHNSTA,PCI .       PROGRAM CONTROLLED INTERRUPT?             16550028
00314C 4780 97B6      03690        3926+          BZ    INITRG             NO,CAI POSSIBLE,BECAUSE OF   @DM03715 16600029
                                   3927+*                                  IN-LINE-TESTS OR BLOCK MPX,RESTART        16601029

                                   3929+************************************************************************ 16660028
                                   3930+*        WHEN THE PCI BIT IS ON WITH ZERO UNIT STATUS,EXIT TO TASK    * 16700028
                                   3931+*        SELECTION IS REQUESTED WITH NO DEQUEUING OF CCB,NOR          * 16750028
                                   3932+*        RESCHEDULING OF CHANNEL.                                     * 16800028
                                   3933+************************************************************************ 16810028

003150 9601 A000      00000        3935+          OI    PIBFLG,IOCMPL .    INDICATE IO COMPLETE              221 16950028
003154 95B0 3004      00004        3936+          CLI   PUBDEVTY,T3277 .   IS DEVICE A 3277                        17010028
003158 4780 97B6      03690        3937+          BE    INITRG .           YES,START NEXT REQUEST                    17020028
00315C 95C0 3004      00004        3938+          CLI   PUBDEVTY,T2260 .   IS DEVICE A 2260?                       17050028
003160 4780 97B6      03690        3939+          BE    INITRG .           YES,START NEXT REQUEST                    17100028
003164 07F6                        3940+          BR    R6 .               EXIT                                      17150028

003166 D602 0041 0041 00041 00041  3942+CHEND1   OC    CCWDRS(L3),CCWDRS .MORE COMMANDS TO BE EXECUTED?             17500029
00316C 4770 95F4      034CE        3943+          BNZ   CHEND2              YES, LOGICAL CHANNEL END     @DY20354 17550034
                            03170  3944+CEDETST  EQU   *                                               @DM03638 17555028
003170 4930 0690            00690  3945+          CH    R3,YPUBTAB         IS IT A HQ REQUEST?          @D34SDEP 17573034
003174 4740 92E0      031BA        3946+          BL    CEDETST2           YES, CANT BE READY INTR.     @D34SDEP 17578034
003178 9190 3006      00006        3947+          TM    PUBCSFLG,DEVBSY+QEDERR DEVICE BUSY              @DY13104 17582034
00317C 4740 92E0      031BA        3948+          BM    CEDETST2              YES, SIZE IS CORRECT       @DY13104 17586034
003180 D501 0044 B77E 00044 0177E  3949+          CLC   DEVSTA(L2),DEVCEND    PURE DEVICE END            @DA06549 17590033
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003186 4770 92E0      031BA        3950+         BNE   CEDETST2              NO                              @DA06549 17592033
00318A 9568 3004      00004        3951+         CLI   PUBDEVTY,T3340        IS DEVICE A 3340?               @DA06549 17598033
00318E 4740 92E0      031BA        3952+         BL    CEDETST2              NO                              @DA06549 17600033
003192 4780 92D4      031AE        3953+         BE    CEDETST1           DETERMINE SIZE ANYHOW              @DY13104 17601034
003196 956A 3004      00004        3954+         CLI   PUBDEVTY,T334070      IS DEVICE A 3340/70?            @DA06549 17602033
00319A 4720 92E0      031BA        3955+         BH    CEDETST2              NO                              @DA06549 17604033
00319E 9118 3006      00006        3956+         TM    PUBCSFLG,QEDERR+OPINTV DEVICE GATED(NOT READY)?       @D34SDEP 17604134
0031A2 4770 92D4      031AE        3957+         BNZ   CEDETST1           YES, PROBABLY PACK CHANGE          @D34SDEP 17604234
0031A6 95FF 3002      00002        3958+         CLI   PUBCHQPT,NOTQUED   IS REQUEST QUEUED?                @D34SDEP 17604334
0031AA 4770 92E0      031BA        3959+         BNE   CEDETST2           YES, LEAVE SIZE THE SAME           @D34SDEP 17604734
                           031AE   3960+CEDETST1 EQU   *                  DETERMINE 3340 SIZE                @D34SDEP 17605134
0031AE 58D0 0874           00874   3961+         L     RD,ASERTASK           ADDRESS OF SERVICE TASK         @D34SDEP 17605934
0031B2 45ED 00F0           000F0   3962+         BAL   RE,SERADD-SERTASK(RD) ACTIVATE SERVICE TASK          @D34SDEP 17606334
0031B6 4700 92DC      031B6        3963+         NOP   *                   'DO NOT START' RETURN POINT       @DY13104 17606734
                                   3964+*                                 NOT USED HERE.  DO NOT DELETE      @DY13104 17607134
                           031BA   3965+CEDETST2 EQU   *                                                    @DA06549 17607933
0031BA 9477 3006      00006        3966+         NI    PUBCSFLG,XFF-DEVBSY-OPINTV   RESET PUB FLAG         @DM08797 17617633
0031BE 9200 087F      0087F        3967+         MVI   RID+1,SYSTEMID .   RESET RTN-IDENT.TO SYSTEM               EM 17626933
0031C2 9550 0044      00044        3968+         CLI   DEVSTA,STATMOD+BUSY CONTROL UNIT BUSY?                  @DA00386 17700030
0031C6 0786                        3969+         BCR   E,R6                YES,EXIT                            @DM05356 17712033
0031C8 9104 0044      00044        3970+         TM    DEVSTA,DEVEND       DEVICE END                          @DM08797 17722030
0031CC 4780 97B6      03690        3971+         BZ    INITRG              NO                                  @DM08797 17726030
0031D0 9110 3006      00006        3972+         TM    PUBCSFLG,QEDERR     IS ERROR QUEUED                 @D34SDAP 17800434
0031D4 4710 97B6      03690        3973+         BO    INITRG              YES, IGNORE INTERRUPT           @D34SDAP 17800934
0031D8 D501 0044 B77E 00044 0177E  3974+         CLC   DEVSTA(L2),DEVCEND PURE DEVICE END                  @D34SDAP 17801434
0031DE 4770 9344      0321E        3975+         BNE   NOTBSY2 .            NO                              @DL2W723 17806030
0031E2 9533 3004      00004        3976+         CLI   PUBDEVTY,T2560 .     IS DEVICE A 2560 (MFCM)               AP 17811030
0031E6 4780 9318      031F2        3977+         BE    REPCHECK .          YES, PERFORM REPOSITIONING TEST        AP 17815130
0031EA 9534 3004      00004        3978+         CLI   PUBDEVTY,T5425 .     IS DEVICE A 5425 (MFCU)         @DM03747 17819230
0031EE 4770 932E      03208        3979+         BNE   NOTBSY .            NO, SKIP REPOSITIONING TEST     @DM03715 17823330
0031F2 9180 3005      00005        3980+REPCHECK TM    PUBOPTN,X'80' .     IS REPOSITIONING REQUIRED              AP 17827430
0031F6 4780 932E      03208        3981+         BZ    NOTBSY              NO                              @DM03715 17831530
0031FA 9180 07B8      007B8        3982+         TM    IJBMFCER,X'80' .    HAS DUMMY ERR. ENTRY BEEN SET UP       AP 17835630
0031FE 0786                        3983+         BCR   Z,R6 .              YES, IGNORE THAT INTERRUPT             AP 17839730
003200 947F 07B8      007B8        3984+         NI    IJBMFCER,X'7F' .    INDICATE DUMMY ERROR ENTRY BUILT       AP 17843830
003204 47F0 9A5C      03936        3985+         B     INTERRCC            SET UP DUMMY ERROR ENTRY        @D34SDAP 17847934
                           03208   3986+NOTBSY   EQU   *                                                   @DF00901 17852030
003208 BFFF 0754           00754   3987+         ICM   RF,M15,APOWTB       ADDRESS POWER TABLE             @D30EULR 17853430
00320C 4780 9344      0321E        3988+         BZ    NOTBSY1             POWER NOT ACTIVE                @D30EULR 17853930
003210 9540 0870      00870        3989+         CLI   DEVZON,PRINTER       INTERRUPT FOR UN REC DEVICE?    @D30EULR 17854030
003214 47B0 9344      0321E        3990+         BNL   NOTBSY1 .           BRANCH IF NOT                   @D30EULR 17855030
                           00000   3991+         USING PADS,RF .                                           @D30EULR 17857030
003218 58F0 F17C           0017C   3992+         L     RF,CAHR             ADDRESS HOT READER ROUTINE      @D30EULR 17859030
                                   3993+         DROP  RF .                                                @DF00901 17862028
00321C 058F                        3994+         BALR  R8,RF                  BRANCH TO HOT RDR RTN        @D30EULR 17864030
                           0321E   3995+NOTBSY1  EQU   *                                                   @DM03715 17864229
00321E 9104 3006      00006        3996+NOTBSY2  TM    PUBCSFLG,POSTDE .   DEVICE END POSTING DESIRED?     @DA06549 17900033
003222 4780 97B6      03690        3997+         BZ    INITRG .            NO,DON'T DEQUEUE TWICE                   17950028
003226 D601 1004 0044 00004 00044  3998+TRNOFFCC OC    CCBSTA(L2),DEVSTA .TO USER CCB                        @DA02861 18050031

                                   4000+************************************************************************ 18070028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 4001+*        NOTE: LABELS TRNOFF AND INITRG ARE USED AS ENTRYPOINTS FROM  * 18080028
                                 4002+*        OUTSIDE THE I/O INTERRUPT HANDLER. REGISTER 3 SHOULD HAVE    * 18090028
                                 4003+*        BEEN SET UP AS PUB POINTER,AND ALSO THE CHANNEL AND DEVICE   * 18092028
                                 4004+*        ADDRESS IN LOW CORE MUST HAVE BEEN SET UP CORRECTLY.HOWEVER, * 18094028
                                 4005+*        REGISTER 2 WILL NOT CONTAIN THE DEVICE ADDRESS IN ALL CASES, * 18096028
                                 4006+*        AND SHOULD NOT BE USED AS SUCH BEYOND THIS POINT.            * 18098028
                                 4007+*************************************************************************** 18098428

00322C 58D0 0884           00884 4009+TRNOFF   L     RD,IOSBASE         RESTORE EXCP BASE REGISTER   @D34RDFG 18099434
003230 9463 3006      00006      4010+          NI    PUBCSFLG,XFF-DEVBSY-POSTDE-OPINTV-QEDERR RESET  @D34RDFG 18100034
                                 4011+* CHECK FOR ERP-IGNORE EXIT WITH OPERATOR INTERVENTION REQD    @D34MDEP 18102034
003234 9120 9A52      0392C      4012+          TM    INTSNSF,INTIGN     WANT DEVICE GATED TIL READY? @D34MDEP 18106034
003238 4780 937A      03254      4013+          BZ    TRNOFF1            NO, BYPASS SETTING OF OPINTV @D34MDEP 18110034
00323C 957D 3004      00004      4014+          CLI   PUBDEVTY,T3895     DEVICE TYPE 3895             @DY14844 18114034
003240 4780 9372      0324C      4015+          BE    INTIGNOF           YES ,TURN-OFF IGNORE FLAG    @DY14844 18117034
003244 9545 3004      00004      4016+          CLI   PUBDEVTY,T3800     DEVICE TYPE 3800             @DY13111 18120034
003248 4770 937A      03254      4017+          BNE   TRNOFF1            NO                           @DY13111 18123034
00324C 94DF 9A52      0392C      4018+INTIGNOF  NI    INTSNSF,XFF-INTIGN TURN-OFF IGNORE FLAG         @DY14844 18126034
003250 9608 3006      00006      4019+          OI    PUBCSFLG,OPINTV    OPERATOR INTERVENTION REQD   @D34MDEP 18135034
                           03254  4020+TRNOFF1  EQU   *                                               @D34MDEP 18142034

                                 4022+*        THE TAPE TRANSIENTS MAY ISSUE A REPOSITION OR BACKSPACE        18700028
                                 4023+*        COMMAND DURING THEIR RETRY PROCEDURES.THEREFORE THE RETRY      18750028
                                 4024+*        COUNTER MAY NOT ALWAYS BE RESET AT THIS POINT.       @D30EUJH 18800031

                           03254  4026+TSTERF   EQU   * .                                                 HL 18900028
003254 9501 4004      00004      4027+          CLI   REQID,SNS          IS THIS SENSE TASK REQUEST   @D34SDAP 18910034
003258 4780 93C6      032A0      4028+          BE    PURGE              YES, BYPASS ERP              @D34SDAP 18920034
00325C 9550 0870      00870      4029+          CLI   DEVZON,TAPES .     IS DEVICE TAPE                    403 19000028
003260 4770 93BA      03294      4030+          BNE   NOTTAPE2 .         NO,SKIP                           403 19050028
003264 9551 3004      00004      4031+          CLI   PUBDEVTY,T2495TC . TAPE CARTRIDGE READER             403 19060028
003268 4780 93BA      03294      4032+          BE    NOTTAPE2 .         YES,SKIP                          403 19100028
00326C 9503 4004      00004      4033+          CLI   REQID,RASID .      RAS REQUEST                  @DM00212 19120028
003270 4780 93C6      032A0      4034+          BE    PURGE              YES,BYPASS ERP               @D34SDAP 19140034
                                 4035+*                                                                    HL 19150028
                                 4036+*        THIS ROUTINE INTERCEPTS TAPE I/O OPERATIONS                 HL 19200028
                                 4037+*        TO CHECK IF ERP REQUESTED THE OPERATION                     HL 19250028
                                 4038+*                                                                    HL 19300028
003274 45E0 B292           01292 4039+          BAL   RE,RMSGETP2 .      GO GET PUB2 ADDRESS               HL 19400028
                           00000 4040+          USING PUB2ADR,R8 .       SET BASE                             19450028
003278 9120 8008      00008      4041+          TM    P2TFLG1,P2TERP .   IS THE ERP IN CONTROL               HL 19500028
00327C 4780 93BA      03294      4042+          BZ    NOTTAPE2           SKIP IF NO ERP REQUEST       @DA11155 19650034
003280 9531 A001      00001      4043+          CLI   PIBCNCL,X'31'      WAS ERROR QUEUE FULL         @DA11155 19660034
003284 4770 9A5C      03936      4044+          BNE   INTERRCC           NO, BUILD ERROR ENTRY        @DA11155 19670034
003288 D702 8008 8008 00008 00008 4045+          XC    P2TFLG1(L3),P2TFLG1 CLEAR PUB2 FLAGS             @DA11155 19680034
00328E D201 8006 B652 00006 01652 4046+          MVC   P2TNAME(L2),AB     RESET TO STANDARD PUB2 NAME  @DA11155 19690034
                           00000 4047+          USING SVEARA,R8 .        STANDARD ADDRESSING          @DA11155 19700034
003294 9180 100C      0000C      4048+NOTTAPE2 TM    CCBBY3,ERRTIN .    IS ERP OPERATING?            @D30EUJH 19800031
003298 4710 93C6      032A0      4049+          BO    PURGE .            YES,DON'T RESET RETRY COUNTR @D30EUJH 19850031
00329C 9200 3003      00003      4050+          MVI   PUBERR,ZERO .      RESET RETRY COUNTER                AC 20100028
0032A0 9680 1002      00002      4051+PURGE     OI    CCBCOM1,TRABIT .   POST CCB                    @DM11305 20150031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0032A4 BD17 B895           01895  4052+         CLM   R1,M7,CBTABAD+D1   IS CCB FROM CBF              @DA00531 20150830
0032A8 4740 93DE      032B8        4053+         BL    PURGE1             NO                           @DA00531 20150930
0032AC BD17 B891           01891  4054+         CLM   R1,M7,CBEND+D1     IS CCB FROM CBF              @DA00531 20153930
0032B0 4720 93DE      032B8        4055+         BH    PURGE1             NO                           @DA00531 20155930
0032B4 9283 0963      00963        4056+         MVI   TRTCBF,READY       RESET CBF BOUND CONDITION    @DA00531 20157930
0032B8 4380 4004           00004  4057+PURGE1   IC    R8,REQID           GET REQUESTOR ID             @D34SDAP 20159034
0032BC 5480 B6C8           016C8  4058+         N     R8,SYSTMASK        REQUEST FROM SYSTEM TASK     @D34SDAP 20162034
0032C0 4770 9480      0335A        4059+         BNZ   ACTSYS            YES,ACTIVATE SYSTEM TASK     @D34SDAP 20165034
0032C4 9144 100C      0000C        4060+         TM    CCBBY3,APPEN+OLTP  APPENDAGE                   @DA01148 20173030
0032C8 4770 9450      0332A        4061+         BNZ   PURGE2             YES,NO VALIDATION            @DA01148 20176030
0032CC 5880 0808           00808  4062+         L     R8,AIRSBLND        END OF I/O REQ SPEC INFO     @DY15773 20179034
0032D0 BD87 100D           0000D  4063+         CLM   R8,M7,CCBCSWW      ADDR IN CCB FROM SUPVR       @DY15042 20180034
0032D4 4740 9450      0332A        4064+         BL    PURGE2             NO, OK                       @DY15042 20181034
0032D8 5880 0804           00804  4065+         L     R8,AFRSTIRS        START OF IRS CCW'S           @DY15773 20182034
0032DC BD87 100D           0000D  4066+         CLM   R8,M7,CCBCSWW      ADDR IN CCB FROM SUPVR       @DY15042 20183034
0032E0 47D0 941A      032F4        4067+         BNH   PURGE3A            YES                          @DY20090 20184034
0032E4 5880 0714           00714  4068+         L     R8,ACCWNDSP        END OF SUPVR CCW'S           @DY15773 20186234
0032E8 BD87 100D           0000D  4069+         CLM   R8,M7,CCBCSWW      ADDR IN CCB FROM SUPVR       @DA01148 20187134
0032EC 4740 9450      0332A        4070+         BL    PURGE2             NO,OK                        @DA01148 20188034
0032F0 47F0 9444      0331E        4071+         B     PURGE1B            TAKE USERS ADDRESS           @DY20090 20189134

                           032F4  4073+PURGE3A  EQU   *                                               @DY20090 20189634
0032F4 1FFF                       4074+         SLR   RF,RF              CLEAR                        @DY20090 20190034
0032F6 43F0 4005           00005  4075+         IC    RF,CHQIRSPT        GET IRS POINTER              @DY20090 20190234
0032FA 4CF0 080C           0080C  4076+         MH    RF,IRSLEN          MULTIPLY BY LENGTH           @DY20090 20190434
0032FE 5AF0 0804           00804  4077+         A     RF,AFRSTIRS        ADD TO START ADDRESS         @DY20090 20190634
                           00000  4078+         USING IRSADR,RF          ADDRESSABILITY               @DY20090 20190834
003302 955E F046      00046        4079+         CLI   IRSTYPE,RDMCKD     IS IT FULL TRACK READ TYPE   @DY20090 20191034
003306 4770 9444      0331E        4080+         BNE   PURGE1B            NO                           @DY20090 20191234
00330A 4180 F030           00030  4081+         LA    R8,IRSECCW4+D8     END ADDRESS RDMCKD CCW       @DY20090 20191434
00330E BD87 100D           0000D  4082+         CLM   R8,M7,CCBCSWW      WAS THIS ONE EXECUTED        @DY20090 20191634
003312 4770 9444      0331E        4083+         BNE   PURGE1B            NO                           @DY20090 20191834
003316 5880 F034           00034  4084+         L     R8,IRSCSWW         USER COMMAND ADDRESS         @DY20090 20192034
00331A 47F0 944C      03326        4085+         B     PURGE3B            GIVE TO USER                 @DY20090 20192234
                                   4086+         DROP  RF                                            @DY20090 20192434

00331E 5880 1008           00008  4088+PURGE1B  L     R8,CCBCCW          GET ADDRESS OF FIRST CCW     @DY15042 20193034
003322 4188 0008           00008  4089+         LA    R8,D8(R8)          INCREMENT WITH CCWLENGTH     @DA01148 20193234
003326 BE87 100D           0000D  4090+PURGE3B  STCM  R8,M7,CCBCSWW      STORE IN CCB                 @DY20090 20194034
                           0332A  4091+PURGE2   EQU   *                                               @DA01148 20197030
00332A 9580 A000      00000        4092+         CLI   PIBFLG,NOTACT .    IS TASK NOT ACTIVE?                AP 21350028
00332E 4780 94B0      0338A        4093+         BE    REQFF .            IF SO,DO NOT INDICATE I/O COMPLETE AP 21400028
003332 9601 A000      00000        4094+         OI    PIBFLG,IOCMPL .    INDICATE I/O COMPLETE             112 21500028
003336 BFFF 0754           00754  4095+         ICM   RF,M15,APOWTB      ADDRESS POWER TABLE          @D30EULR 21520030
00333A 4780 94B0      0338A        4096+         BZ    REQFF              BRANCH IF POWER NOT ACTIVE   @D30EULR 21530030
                           00000  4097+         USING PADS,RF            ADDRESSABILITY POWER TABLE   @D30EULR 21540030
00333E 59A0 F16C           0016C  4098+         C     RA,CAPB            IS POWER PARTITION POSTED    @D30EULR 21540430
003342 4770 94B0      0338A        4099+         BNE   REQFF              BRANCH IF NOT                @D30EULR 21540830
003346 9680 F152      00152        4100+         OI    PAEB+2,TRABIT      TURN ON POWER/VS MASTER ECB  @D30EULR 21542030
00334A 9160 100C      0000C        4101+         TM    CCBBY3,APPEN+USENSE RJE REQUEST?                @D30EUJH 21542430
00334E 47E0 94B0      0338A        4102+         BNO   REQFF .            NO, SKIP                     @D30EUJH 21542830
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003352 947F 1002      00002        4103+         NI    CCBCOM1,X'FF'-TRABIT DON'T POST CCB            @D30EUJH 21543230
                                   4104+         DROP  RF                                             @D30EULR 21544030
003356 47F0 94B0      0338A        4105+         B     REQFF              AND CONTINUE                @D30EUJH 21596030
                            00000  4106+         USING SYSBLKS,R8 .       DECLARE BASE                    EM 21690028
00335A 4388 0798            00798  4107+ACTSYS   IC    R8,SYSPTR(R8) .    GET PIBFLAG OF PERTINENT SYS.TSK EM 21700028
00335E 5A80 0790            00790  4108+         A     R8,ASYSBLK0                                        EM 21705028
003362 4880 8000            00000  4109+         LH    R8,SYSPIBFL                                        EM 21710028
                            00000  4110+         USING SPIBADR,R8 .       DECLARE BASE                    EM 21715028
003366 9601 8000      00000        4111+         OI    SPIBFLG,IOCMPL .   POST SYSTEM TASK                EM 21720028
00336A 9500 073D      0073D        4112+         CLI SELECT,ZERO .        ANY SYSTEM TASK ACTIVE          EM 21725028
00336E 4780 94B0      0338A        4113+         BE    REQFF .            NO                              EM 21730028
003372 5850 0794            00794  4114+         L     R5,ASYSBLKX        GET SAVE AREA                   EM 21735028
                            00000  4115+         USING SYSBLKS,R5                                       EM 21740028
003376 4980 5000            00000  4116+         CH    R8,SYSPIBFL .      ACTIVE SYSTEM TASK HAS HIGHER PR EM 21745028
00337A 47B0 94B0      0338A        4117+         BNL   REQFF .            NO                              EM 21750028
00337E 4880 5000            00000  4118+         LH    R8,SYSPIBFL .      POINT TO SYSPIB FLAG            EM 21755028
003382 9283 8000      00000        4119+         MVI   SPIBFLG,READY .    POST IT                         EM 21760028
003386 9200 073D      0073D        4120+         MVI   SELECT,ZERO .      CLEAR SELECT FIELD              EM 21765028
                            00000  4121+         USING SVEARA,R8 .        DECLARE STANDARD USING             21900528
                            0338A  4122+REQFF     EQU   * .                CONTINUE                        AS 21951028
00338A D501 3000 07DC 00000 007DC  4123+         CLC   PUBCHANN,SYSOCDEV  IS THIS THE OPERATOR CONSOLE @D34EDAP 21951234
003390 4770 94D2      033AC        4124+         BNE   REQFF1             NO, ITS NOT                 @D34EDAP 21982234
003394 9500 3004      00004        4125+         CLI   PUBDEVTY,T1052     IS THIS THE 1052 CONSOLE    @D34EDAP 21985234
003398 4780 94D2      033AC        4126+         BE    REQFF1             YES, IT IS                  @D34EDAP 21988234
00339C 9509 4004      00004        4127+         CLI   REQID,CRT .        IS THIS A CRT REQUEST       @DM04282 21991228
0033A0 4770 94D2      033AC        4128+         BNE   REQFF1 .           NO                          @DM04282 21991428
0033A4 9680 3006      00006        4129+         OI    PUBCSFLG,DEVBSY .  CRT DEVICE REMAINS BUSY     @DM04282 21994028
0033A8 47F0 97B6      03690        4130+         B     INITRG             GO TO THE SCHEDULER         @DY20438 21995034
                            033AC  4131+REQFF1   EQU   *                                              @D34EDAP 21997034
0033AC 92FF 4007      00007        4132+         MVI   TKREQID,X'FF' .    RESET THE REQID             @DF03094 22078030
0033B0 D300 0870 3004 00870 00004  4133+         MVZ   DEVZON,PUBDEVTY    ISOLATE ZONE OF DEVICE TYPE @DY20607 22080034
0033B6 9560 0870      00870        4134+         CLI   DEVZON,DASD        IS IT DASD                  @DY20607 22082034
0033BA 4770 9526      03400        4135+         BNE   NOIRSDEQ           NO, SKIP IRSBLOCK DEQUEUE   @DY20607 22084034
0033BE 95FF 4005      00005        4136+CKIRSDEQ CLI   CHQIRSPT,XFF       HAVE TO DEQUEUE IRS BLOCK   @DY20090 22089034
0033C2 4780 9526      03400        4137+         BE    NOIRSDEQ           NO                          @DY15773 22089534
0033C6 1F55                        4138+         SLR   R5,R5              CLEAR                       @DY15773 22090034
0033C8 4350 4005            00005  4139+         IC    R5,CHQIRSPT        GET POINTER TO IRS BLOCK    @DY15773 22090534
0033CC 1885                        4140+         LR    R8,R5              COPY IRS POINTER            @DY15773 22091034
0033CE 4C80 080C            0080C  4141+         MH    R8,IRSLEN          MULTIPLY WITH LENGTH        @DY15773 22091534
0033D2 5A80 0804            00804  4142+         A     R8,AFRSTIRS        ENTRY ADDRESS               @DY15773 22092034
                            00000  4143+         USING IRSADR,R8          ADDRESSABILITY              @DY15773 22092534
0033D6 D200 4005 8047 00005 00047  4144+         MVC   CHQIRSPT,IRSCHAIN  NEXT BLOCK TO CHANQ ENTRY   @DY20090 22092734
0033DC 4170 0804            00804  4145+         LA    R7,IRSFLPTR        POINT TO FLPTR              @DY15773 22093034
0033E0 4950 D204            0D3B8  4146+         CH    R5,IRSRESX         WAS IT RESERVED IRS BLOCK   @DY15773 22093534
0033E4 47B0 9518      033F2        4147+         BNL   DQIRSNRM           NO, NORMAL ENTRY            @DY15773 22094034
0033E8 1875                        4148+         LR    R7,R5              COPY POINTER                @DY15773 22094534
0033EA 4377 D206            0D3BA  4149+         IC    R7,IRSRSXTB(R7)    PROPER INDEX                @DY15773 22095034
0033EE 4177 D1FC            0D3B0  4150+         LA    R7,RESIRST(R7)     CORRECT FREE LIST POINTER   @DY15773 22095534
0033F2 D200 8047 7000 00047 00000  4151+DQIRSNRM MVC   IRSCHAIN,D0(R7)    ADD TO FREE LIST CHAIN      @DY15773 22096034
0033F8 4257 0000            00000  4152+         STC   R5,D0(R7)          AT HEAD OF FREE LIST        @DY15773 22096534
0033FC 47F0 94E4      033BE        4153+         B     CKIRSDEQ           CHECK IF MORE TO DEQUEUE    @DY20090 22096734
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            00000  4154+         USING SVEARA,R8          STANDARD ADDRESSABILITY      @DY15773 22097034
003400 1F88                        4155+NOIRSDEQ SLR   R8,R8                CLEAR                        @DY15773 22097534
003402 4380 3002                00002  4156+         IC    R8,PUBCHQPT .      SAVE CHAIN POINTER FROM PUB           22099034
003406 4350 4000                00000  4157+         IC    R5,CHQCHAIN .      MAKE NEXT REQUEST              191 22109034
00340A 4250 3002                00002  4158+         STC   R5,PUBCHQPT .      FIRST ON QUEUE                 191 22119034
00340E 4170 071C                0071C  4159+         LA    R7,FLPTR           POINT TO FLPTR               @DY14862 22129034
003412 4980 D17E                0D332  4160+         CH    R8,RESERVX         WAS IT RESERVED CHANQ ENTRY  @DY14862 22139034
003416 4740 954E      03428            4161+         BL    DEQNORM            NO, NORMAL ENTRY             @DY14862 22147034
00341A 1878                        4162+         LR    R7,R8              COPY CHANQ POINTER           @DY14862 22155034
00341C 4B70 D17E                0D332  4163+         SH    R7,RESERVX         MINUS RESERVED INDEX         @DY14862 22163034
003420 4377 D180                0D334  4164+         IC    R7,RESXTAB(R7)     PROPER RESERVT INDEX         @DY14862 22171034
003424 4177 D16E                0D322  4165+         LA    R7,RESERVT(R7)     CORRECT FREE LIST POINTER    @DY14862 22179034
003428 4357 0000                00000  4166+DEQNORM  IC    R5,D0(R7)          AND ADD THIS ENTRY           @DY14862 22199034
00342C 4250 4000                00000  4167+         STC   R5,CHQCHAIN .      TO THE FREE LIST CHAIN         191 22209034
003430 4287 0000                00000  4168+         STC   R8,D0(R7)          AT HEAD OF FREE LIST         @DY14862 22219034
003434 9283 095F      0095F            4169+         MVI   TRTCHQ,READY       ACTIVATE CHQBND TASKS        @DY14862 22229034
003438 9120 1006      00006            4170+         TM    CCBCLS,CCBCOPY .   TRANSL.I/O REQUEST                EM 22300834
00343C 4780 956E      03448            4171+         BZ    INITHQ .           NO,TEST FOR MORE REQUEST     @DM01647 22301534
003440 5890 077C                0077C  4172+         L     R9,ACCWT .         SET UP BASE FOR CCWT MOD              EM 22303834
                                06B70  4173+         USING CCWTADR,R9                                                22303934
003444 4580 9CA0                07810  4174+         BAL   R8,CSWTRANS .      THIS ROUTINE RETRANSLATES             22304034
                                       4175+*                                CCW ADDR.IN CSW,RELEASES COPYBLOCKSEM 22304234
                                       4176+*                                USED FOR CHAN.PROG.AND IDALS,AND   EM 22304434
                                       4177+*                                TFREES THE I/O AREAS .IT MOVES     EM 22304634
                                       4178+*                                INFORM.TO USER CCB ,IF POSSIBLE    EM 22346028
                                02EDA  4179+         USING INTRTN,R9 .        RESET STANDARD ADDRESSING    @DM03030 22346228
003448 58D0 0884                00884  4180+INITHQ   L     RD,IOSBASE         SET UP IOS-BASE REGISTER     @D34SDAP 22346934
00344C 4550 9588                03462  4181+         BAL   R5,TESTHQ .        GOTO TEST AND PROC.HEAD QUEUE@DM03030 22347134
003450 58F0 0820                00820  4182+         L     RF,RASBASE .       LOAD BASE FOR RAS            @DM03030 22347534
                                0C27A  4183+         USING MCSTRT,RF .        DECLARE BASE                 @DM03030 22348034
003454 9180 FDF7      0D071            4184+         TM    RASTAPSW,RASRTSUC  WAS RAS RETRY SUCCESSFULL    @D34SDAP 22348334
003458 47E0 97B6      03690            4185+         BNO   INITRG .           NO,TRY TO RESTART THE CHANNEL@DM03444 22348434
00345C 947F FDF7      0D071            4186+         NI    RASTAPSW,X'FF'-RASRTSUC RESET RETRY INDICATOR   @D34SDAP 22349434
003460 07F9                        4187+         BR    R9                 START USER PROCESSING        @D34SDAP 22349534
003462 4930 0690                00690  4188+TESTHQ   CH    R3,YPUBTAB .       IS IT HEAD QUEUE REQUEST     @DM01647 22351334
003466 4740 95D2      034AC            4189+         BL    RESETHQ .          YES,GOTO DEACTIVATE          @DM01647 22351434
00346A 9103 3007      00007            4190+         TM    PUBJCFLG,HQIPR     HEAD QUEUE WANTED            @DM01647 22351534
00346E 07B5                        4191+         BCR   NM,R5 .              NO,RETURN                    @DM01647 22351634
003470 5870 B5B8                015B8  4192+READYHQ  L     R7,AHQTAB .        ADDRESS OF HEAD QUEUE TABLE  @DM01647 22351734
                                00000  4193+         USING HQADR,R7 .                                      @DM01647 22351834
003474 1B88                        4194+         SR    R8,R8 .            INDICATE NO WANTER           @DM03444 22351934
003476 4177 000C                0000C  4195+READYHQ1 LA    R7,HQLENGTH(R7) .  ADDRESS OF FIRST ENTRY       @DM03444 22352028
00347A 4930 7008                00008  4196+         CH    R3,HQPUBPTR .      HEAD QUEUE REQ.FOR SAME PUB  @DM01647 22352528
00347E 4770 95C2      0349C            4197+         BNE   READYHQ2 .         GOTO TEST FOR TABLE END      @DM01647 22353028
003482 9103 7007      00007            4198+         TM    HQJCFLG,HQIPR .    WAITING FOR HEAD QUEUE       @DM03444 22355028
003486 4740 95BA      03494            4199+         BM    READYHQ3 .         YES,GOTO ACTIVATE WANTER     @DM03444 22357028
00348A 94FC 7007      00007            4200+READYHQ4 NI    HQJCFLG,XFF-HQIPR  SET HQ IN PROGRESS AGAIN     @DM03444 22358028
00348E 9603 3007      00007            4201+         OI    PUBJCFLG,HQIPR .   SET HQ IN PROGRESS AGAIN     @DM01647 22359028
003492 07F5                        4202+         BR    R5 .               RETURN                       @DM01647 22361028
003494 1288                        4203+READYHQ3 LTR   R8,R8 .              ANOTHER WAITER FOUND         @DM03444 22369028
003496 4770 95C2      0349C            4204+         BNZ   READYHQ2 .         NO,TEST NEXT ONE             @DM04225 22370028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00349A 1887                      4205+          LR    R8,R7 .              SAVE POINTER TO THIS ENTRY   @DM03444 22371028
00349C 5970 B5BC           015BC  4206+READYHQ2  C     R7,HQTABEND .        LAST HQ-TAB ENTRY            @DM01647 22375428
0034A0 4770 959C      03476      4207+          BNE   READYHQ1 .           NO,TEST NEXT ONE             @DM01647 22375828
0034A4 1278                      4208+          LTR   R7,R8 .              IS ANY TASK WAITING FOR HQ   @DM03444 22376228
0034A6 0785                      4209+          BCR   Z,R5 .               RETURN IF NOT                @DM03444 22376628
0034A8 47F0 95B0      0348A      4210+          B     READYHQ4 .           GOTO ACTIVATE HEAD QUEUE     @DM03444 22377028
0034AC 1873                      4211+RESETHQ   LR    R7,R3 .              ADDRESS OF HEAD QUEUE ENTRY  @DM01647 22379028
0034AE 4830 7008           00008  4212+          LH    R3,HQPUBPTR .        POINTER TO ORIGINAL PUB      @DM01647 22381028
0034B2 4070 7008           00008  4213+          STH   R7,HQPUBPTR .        INACTIVATE ENTRY             @DM01647 22383028
0034B6 94FC 3007      00007      4214+          NI    PUBJCFLG,XFF-HQIPR   TURN HEAD QUEUE IN PROGR.OFF @DM01647 22385028
0034BA 47F0 9596      03470      4215+          B     READYHQ .            GOTO TEST FOR ANOTHER WANTER @DM01647 22387028
                           00000  4216+          USING CCWADR,R7 .                                       @DM01647 22389028
                           00000  4217+          USING SVEARA,R8 .                                       @DM01647 22391028

0034BE 5810 B6E8           016E8  4219+BTRETRL   L     R1,BTSAV+D4          GET POINT.TO COPIED CCB      @DM03170 22405028
0034C2 47F0 9296      03170      4220+          B     CEDETST              PROCESS DEV.END              @DM03170 22407528

0034C6 9110 3006      00006      4222+CHNDRT    TM    PUBCSFLG,QEDERR      IF QUEUED FOR ERROR, ..      @DY20354 22450034
0034CA 4710 97B6      03690      4223+          BO    INITRG               .. LEAVE FOR ERP TO DEQUEUE  @DY20354 22460034
0034CE 1211                      4224+CHEND2    LTR   R1,R1                IS CCB AVAILABLE?            @DY20354 22470034
0034D0 4780 97B6      03690      4225+          BZ    INITRG .             NO,IGNORE INTERRUPT                   22500028
0034D4 4870 0046           00046  4226+          LH    R7,CSWCNT .          PICK UP RESIDUAL COUNT             191 22750028
0034D8 4070 1000           00000  4227+          STH   R7,CCBCNT .          AND STORE IT IN CCB                191 22800028
0034DC 5870 0040           00040  4228+SO        L     R7,CSW .             GET NEXT CCW ADDRESS               191 23000028
0034E0 9144 100C      0000C      4229+          TM    CCBBY3,APPEN+OLTP .TP OR OLTEP APPENDAGE?                  23100028
0034E4 4770 9612      034EC      4230+          BNZ   POSTSTAT .           YES,SKIP                             23150028
0034E8 BE77 100D           0000D  4231+          STCM  R7,M7,CCBCSWW .      STORE NEXT CCW ADDRESS               23250028
0034EC D601 1004 0044 00004 00044 4232+POSTSTAT OC    CCBSTA(L2),DEVSTA .MOVE CSW STATUS TO USER CCB            23300028
0034F2 9501 4004      00004      4233+          CLI   REQID,SNS            IS THIS SENSE TASK REQUEST @D34SDAP 23330034
0034F6 4780 979A      03674      4234+          BE    NOEOF                YES, SKIP SPECIAL PROCESSING @D34SDAP 23360034

                                 4236+* IF IT IS A SYSTEM FILE ON DASD,OR 3540,THE DIB ENTRY IS UPDATED       23500029

0034FA 9503 4006      00006      4238+          CLI   LUBDSP,SYSLST .      IS IT A SYSTEMFILE?                  23750028
0034FE 4720 979A      03674      4239+          BH    NOEOF .              NO                                   23800028
003502 9560 0870      00870      4240+          CLI   DEVZON,DASD .        IS IT A DASD DEVICE                403 23900028
003506 4780 9638      03512      4241+          BE    SYFIDAS .            YES                          @DL29R01 23950029
00350A 9580 0870      00870      4242+          CLI   DEVZON,T3540         IS IT DISKETTE               @DL29R01 23960029
00350E 4770 96BE      03598      4243+          BNE   NODIBUPD                                          @DL29R01 23970029
                           03512  4244+SYFIDAS   EQU   *                                                 @DL29R01 23980029

                                 4246+* DIB ENTRY WILL BE UPDATED                                            24250028

003512 58F0 0014           00014  4248+          L     RF,CRADDR .          LOAD COM REG ADDRESS                EM 24310028
003516 4580 D7AA           0D95E  4249+          BAL   R8,DIBENTRY .        GET CORRECT DIB ENTRY ADDRESS          24350028
                           00000  4250+          USING DIB,R5 .             DECLARE BASE                           24400028
00351A 9580 3004      00004      4251+          CLI   PUBDEVTY,T3540       TEST FOR 3540 DEVICE         @DL29R01 24410029
00351E 4780 967C      03556      4252+          BE    DIB3540              YES, CHECK OCHR FORMAT       @DL29R01 24420029
003522 4180 5006           00006  4253+          LA    R8,CURAD+D6 .        GET ADDRESS OF RECORD NUMBER IN DIB   24450028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003526 D500 5006 5013 00006 00013  4254+         CLC   CURAD+D6(L1),MAXREC MAXIMUM NUMBER OF RECORDS PER TRACK  24500028
00352C 4770 96B2      0358C        4255+         BNE   ADD1 .               NO, ONLY RECORD NUMBER UPDATE        24600028
003530 9201 5006      00006        4256+         MVI   CURAD+D6,ONE .      FIRST RECORD OF NEW TRACK             24650028
003534 0680                        4257+         BCTR  R8,R0 .             POINT TO LAST H BYTE IN DIBENTRY      24700028
003536 D500 5005 5011 00005 00011  4258+         CLC   CURAD+D5(L1),UL .   ALL TRACKS OF CYLINDER HAD?           24750028
00353C 4770 96B2      0358C        4259+         BNE   ADD1 .              NO, UPDATE TRACK NUMBER               24800028
003540 D200 5005 5012 00005 00012  4260+         MVC   CURAD+D5(L1),LL .   START WITH FIRST TRACK OF NEXT CYL    24850028
003546 4880 5002            00002  4261+         LH    R8,CURAD+2 .        GET CC BYTES                          24950028
00354A 4188 0001            00001  4262+         LA    R8,D1(R8) .         ADD 1 TO THEM                         25000028
00354E 4080 5002            00002  4263+         STH   R8,CURAD+2 .        RESTORE THEM                          25050028
003552 47F0 96BE      03598        4264+         B     NODIBUPD .          UPDATE OF DIB COMPLETE                25100028
                                   4265+*        UPDATE CYL OR REC NUMBER FOR 3540 DIB                @DL29R01 25110029
003556 5881 0008            00008  4266+DIB3540  L     R8,D8(R1)           GET CCW ADDRESS FROM CCB     @DL29R01 25112029
00355A 4188 0000            00000  4267+         LA    R8,D0(R8)           CLEAR HIGH ORDER BYTE        @DL29R01 25114029
00355E 9140 8004      00004        4268+         TM    D4(R8),CC           IS THIS CCW CHAINED          @DL29R01 25114429
003562 47E0 96BE      03598        4269+         BNO   NODIBUPD            NO, MUST HAVE BEEN CONT CCW  @DL29R01 25114829
003566 9507 8000      00000        4270+         CLI   D0(R8),SEEK         WAS FIRST CCW A SEEK         @DL29R01 25116029
00356A 4780 969C      03576        4271+         BE    DIBCONT             YES, CONTINUE                @DL29R01 25116429
00356E 9507 8008      00008        4272+         CLI   D8(R8),SEEK         IS THE SECOND CCW A SEEK     @DL29R01 25116829
003572 4770 96BE      03598        4273+         BNE   NODIBUPD            NO BRANCH                    @DL29R01 25118029
003576 4180 5006            00006  4274+DIBCONT  LA    R8,CURAD+D6         POINT TO REC IN DIB          @DL29R01 25120029
00357A D500 5006 5013 00006 00013  4275+         CLC   CURAD+D6(L1),MAXREC  26 REC PER TRACK              @DL29R01 25130029
003580 4770 96B2      0358C        4276+         BNE   ADD1                INCREASE BY ONE              @DL29R01 25140029
003584 9201 5006      00006        4277+         MVI   CURAD+D6,ONE        RESET REC NUMBER TO ONE      @DL29R01 25142029
003588 4180 5004            00004  4278+         LA    R8,CURAD+D4         POINT TO CYL NUMBER          @DL29R01 25144029
00358C 4358 0000            00000  4279+ADD1     IC    R5,D0(R8) .         - H OR R BYTE IN R7                   25150028
003590 4155 0001            00001  4280+         LA    R5,D1(R5) .         ADD 1 TO IT                           25200028
003594 4258 0000            00000  4281+         STC   R5,D0(R8) .         AND STORE IT IN DIBENTRY              25250028
003598 5850 0014            00014  4282+NODIBUPD L     R5,CRADDR           GET COMREG ADDRESS           @DM00395 25450028
00359C 1B00                        4283+         SR    R0,R0               FIRST BYTE IN DATA AREA      @DM00395 25502028
00359E 9220 96D9      035B3        4284+         MVI   MASK81,RDR81T       SET TEST FOR SYSRDR          @DM00395 25502428
0035A2 9501 4006      00006        4285+         CLI   LUBDSP,SYSIPT       IS UNIT SYSRDR OR SYSIPT     @DM00395 25504028
0035A6 4720 979A      03674        4286+         BH    NOEOF               NO,DON'T TEST FOR EOF        @DM00395 25506028
0035AA 4740 96D8      035B2        4287+         BL    RDR81               TEST SYSRDR                  @DM00395 25508028
0035AE 9210 96D9      035B3        4288+         MVI   MASK81,IPT81T       SET TEST FOR SYSIPT          @DM00395 25510028
                            035B3  4289+MASK81   EQU   *+1                 MASK,MODIFIED BY PREVIOUS    @DM00395 25512028
                                   4290+*                                  INSTRUCTIONS TO TEST 81 BYTE @DM00395 25514028
                            00000  4291+         USING COMREG,R5           ESTABLISH BASE FOR COMREG    @DM11453 25514431
0035B2 9120 509F      0009F        4292+RDR81    TM    INSIZE,RDR81T       81 BYTE SYSRDR               @DM00395 25516028
0035B6 47E0 96E4      035BE        4293+         BNO   NO81BYT            NO                           @DM00395 25518028
0035BA 4A00 B6DA            016DA  4294+SET81    AH    R0,H1               TEST BYTE 2 FOR /            @DM00395 25520028
                            035BE  4295+NO81BYT  EQU   *                                                @DM00395 25522028
0035BE 4B70 08F2            008F2  4296+         SH    R7,H8 .             POINT TO PREVIOUS CCW                 25550028
0035C2 9522 7000      00000        4297+         CLI   0(R7),RDSECT        IS COMMAND A READ-SECTOR     @DM09658 25552030
0035C6 4770 9708      035E2        4298+         BNE   NORPSCHP            NO, IT IS A NORMAL READ      @DM09658 25552530
0035CA 4B70 08F2            008F2  4299+         SH    R7,H8               BACKUP ONE CCW               @DM09658 25553030
0035CE 9512 7000      00000        4300+         CLI   0(R7),E3RDCT        IS COMMAND A READ-COUNT      @DM09658 25553530
0035D2 4780 9704      035DE        4301+         BE    RPSRDCNT            YES.                         @DY13844 25554034
0035D6 9592 7000      00000        4302+         CLI   0(R7),READCNT       IS COMMAND A M/T READ COUNT  @DY13844 25554234
0035DA 4770 9708      035E2        4303+         BNE   NORPSCHP            NO, THEN THIS IS THE READ    @DY13844 25554434
0035DE 4B70 08F2            008F2  4304+RPSRDCNT SH    R7,H8               ELSE BACKUP ONE MORE CCW     @DY13844 25554634
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            035E2  4305+NORPSCHP EQU   *                  COME IF NO RPS CHAN. PROGR.  @DM09658 25555030
0035E2 950C 7000      00000        4306+         CLI   D0(R7),READB        IS IT READ BACKW (TAPE ERP)  @DY15522 25557934
0035E6 4780 979A      03674        4307+         BE    NOEOF              YES, NOT EOF                 @DY15522 25558334
0035EA 9103 7000      00000        4308+         TM    D0(R7),CONTROL     IS IT CONTROL CMD (TAPE ERP) @DY15522 25558734
0035EE 4710 979A      03674        4309+         BO    NOEOF              YES, NOT EOF                 @DY15522 25559134
0035F2 1887                        4310+         LR    R8,R7 .            PREPARE PARAMETER FOR GETDADR      EM 25560028
0035F4 4570 B398            01398  4311+         BAL   R7,GETDADR .       GET VIRTUAL ADDRESS                25580028
0035F8 9561 F000      00000        4312+         CLI   0(RF),SLASH .      IS FIRST CHAR. /                   EM 25590028
0035FC 4770 979A      03674        4313+         BNE   NOEOF ..           BRANCH IF NOT                      25600028
003600 9540 F002      00002        4314+         CLI   D2(RF),C' '        IS THIRD CHAR. BLANK         @DA02804 25600431
003604 4770 979A      03674        4315+         BNE   NOEOF              BRANCH IF NOT                @DA02804 25600831
003608 4A00 B6DA            016DA  4316+         AH    R0,H1              NEXT BYTE IN DATA AREA       @DM00395 25602028
00360C 4570 B398            01398  4317+         BAL   R7,GETDADR .       IN INPUT AREA                      25620028
003610 955C F000      00000        4318+         CLI   0(RF),ASTR .       TEST FOR /*                        EM 25630028
003614 4780 9786      03660        4319+         BE    PSTEOF .           BRANCH ON END OF FILE              25750028
003618 9500 4006      00006        4320+         CLI   LUBDSP,SYSRDR .          REQUEST ON SYSRDR             VB 25751028
00361C 4780 974E      03628        4321+         BE    PPTEST0 .                YES -                       VB 25756028
003620 91A0 5097      00097        4322+         TM    PSWTCH,PCALL+PDATA .     PROCEDURE WITH SYSIPT DATA  VB 25757028
                                   4323+*                                       BEING EXECUTED              VB 25758028
003624 47E0 975E      03638        4324+         BNO   TSTEOJ .                 NO -                        VB 25759028
003628 9181 5097      00097        4325+PPTEST0  TM    PSWTCH,PCALL+POVBIT .    PROCEDURE STATEMENT REQUEST VB 25761028
00362C 47B0 975E      03638        4326+         BNM   TSTEOJ .                 NO -                        VB 25762028
003630 954E F000      00000        4327+         CLI   0(RF),PLUS .             END OF PROCEDURE            VB 25763028
003634 4780 9782      0365C        4328+         BE    PSTEOP .                 YES -                       VB 25764028
                            03638  4329+TSTEOJ   EQU   * .                                                  VB 25765028
003638 9550 F000      00000        4330+         CLI   0(RF),AMPERS .     TEST FOR /&                        EM 25800028
00363C 4770 979A      03674        4331+         BNE   NOEOF .            NO,DON'T POST ANYTHING                25850028
003640 9111 509F      0009F        4332+         TM    INSIZE,CATALSA+IPT81T ALLOW /& FOR MAINT CATALS @DM03037 25852028
                                   4333+*                                 AND SYSIPT IS 81 BYTES       @DM03037 25852428
003644 47E0 9776      03650        4334+         BNO   NOMAINT            NO                           @DM03037 25854028
003648 9501 4006      00006        4335+         CLI   LUBDSP,SYSIPT      WAS IT SYSIPT                @DM03037 25858028
00364C 4780 979A      03674        4336+         BE    NOEOF              YES, DON'T POST /&           @DM03037 25858428
                            03650  4337+NOMAINT  EQU   *                                               @DM03037 25858828
003650 9620 A00F      0000F        4338+         OI    PIBFLG2,JOBDUN .   SET /& READ IN PIB           @D30EULR 25890030
003654 9180 5097      00097        4339+TSTEOP   TM    PSWTCH,PCALL .           PROCEDURE PROCESSING        VB 25900228
003658 4780 9786      03660        4340+         BZ    PSTEOF .                 NO -                        VB 25900428
00365C 9604 5097      00097        4341+PSTEOP   OI    PSWTCH,PEND .            POST /+ IN PROC INTERFACE   VB 25901028
                                   4342+         DROP  R5                       DROP COMREG BASE      @DM11453 25901531
                            00000  4343+         USING DIRECTRY,R5 .            RESET STANDARD USING        VB 25902028
003660 9640 1002      00002        4344+PSTEOF   OI    CCBCOM1,EOF .      POST EOF IN CCB                    25950028
003664 9601 1004      00004        4345+         OI    CCBSTA,UNITEXCP .  POST UNIT EXCEPTION IN CCB         26000028
003668 9510 3004      00004        4346+         CLI   PUBDEVTY,T2501     IS DEVICE 2501               @DY11765 26002034
00366C 4770 979A      03674        4347+         BNE   NOEOF              NO                           @DY11765 26004034
003670 9604 3007      00007        4348+         OI    PUBJCFLG,EOF2501   POST EOF IN PUB               @DY11765 26006034
003674 9501 0044      00044        4349+NOEOF    CLI   DEVSTA,UNITEXCP    UNIT EXCEP AT INIT.SELECTION @DA10250 26010034
003678 4780 9352      0322C        4350+         BE    TRNOFF             YES, GET REQUEST DEQUEUED    @DA10250 26020034
00367C 9126 0044      00044        4351+         TM    DEVSTA,CUEND+DEVEND+UNITCK FINAL STATUS         @DA10250 26030034
003680 4770 9352      0322C        4352+         BNZ   TRNOFF .           NO,DEQUEUE THE CCB                    26100028
003684 9104 1002      00002        4353+         TM    CCBCOM1,POSTDE .   DOES REQUESTOR WANT POSTING AT DEVEND 26150028
003688 4780 937A      03254        4354+         BZ    TSTERF .           NO,DEQUEUE THE CCB                    26200028
00368C 9604 3006      00006        4355+         OI    PUBCSFLG,POSTDE .  SET DEVICE END POSTING REQUESTED      26250028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003690 58D0 0884            00884  4356+INITRG   L     RD,IOSBASE          RESTORE EXCP BASE REGISTER   @D34RDFG 26250234
003694 1856                        4357+         LR    R5,R6 .             COPY EXIT POINTER            @D34RDFG 26250534
003696 1B88                        4358+         SR    R8,R8 .             CLEAR REGISTER                        26350128
003698 4380 00BA            000BA  4359+         IC    R8,CHNADR .         INSERT CHANNEL NUMBER                 26350528
00369C 4388 08F6            008F6  4360+         IC    R8,CHNDIS(R8) .     CALCULATE DISPLACEMENT                26500028
0036A0 5A80 0734            00734  4361+         A     R8,ACHNTAB .        SET POINTER TO CHANNEL TABLE          26550028
0036A4 9110 8000      00000        4362+         TM    D0(R8),MPXCHN .     INTERRUPT FROM BYTE MPX CHNL      435 26600028
0036A8 47E0 9834      0370E        4363+         BNO   INITRG1 .           NO,SCAN PUBS ON SELECTOR CHNL         26850028
0036AC 4930 0690            00690  4364+         CH    R3,YPUBTAB          WHEN POSTING AT DEVICE END.. @DA08496 26960033
0036B0 47B0 97DE      036B8        4365+         BNL   MPXRST10            .. WE STILL MIGHT HAVE ..    @DA08496 26970033
0036B4 4830 3008            00008  4366+         LH    R3,PUBPTR           .. HEADQUEUE ADDRESS IN R3   @DA08496 26980033
0036B8 4930 DA88            0DC3C  4367+MPXRST10 CH    R3,BMPXPUB          BURST MODE CAUSE             @DA08496 26990033
0036BC 4770 97F2      036CC        4368+         BNE   MPXRST4             NO, TEST OTHER REST REASONS  @DA08496 26992033
0036C0 9200 DA88      0DC3C        4369+         MVI   BMPXPUB,ZERO        BURST OPERATION COMPLETED    @DA08496 26994033
0036C4 94FD 8000      00000        4370+         NI    D0(R8),NOBRST       YES, RELEASE CHANNEL         @DA08496 27000033
0036C8 47F0 9812      036EC        4371+         B     MPXRST2             GO SETUP FOR RESTART         @DA02845 27002031
                            036CC  4372+MPXRST4  EQU   *                                                @DA05858 27007032
0036CC 95C0 3004      00004        4373+         CLI   PUBDEVTY,T2260      LOCAL CRT DEVICE             @DA05858 27011032
0036D0 4780 9812      036EC        4374+         BE    MPXRST2             YES                          @DA05858 27013032
0036D4 95B0 3004      00004        4375+         CLI   PUBDEVTY,T3277      LOCAL CRT DEVICE             @DA05858 27015032
0036D8 4780 9812      036EC        4376+         BE    MPXRST2             YES                          @DA05858 27017032
0036DC 9500 DA8E      0DC42        4377+         CLI   REMPX,ZERO          MULTIPL. TO BE RESTARTED     @DA05858 27055032
0036E0 4770 9812      036EC        4378+         BNE   MPXRST2             YES                          @DA02845 27070031
0036E4 9120 0044      00044        4379+         TM    DEVSTA,CUEND        CONTROL UNIT END             @DA02845 27075031
0036E8 4780 9894      0376E        4380+         BZ    FREDEV1             NO, SKIP PUBSCAN             @DA02845 27080031
0036EC 4930 0690            00690  4381+MPXRST2  CH    R3,YPUBTAB          BE CAREFUL WITH              @DA02845 27100031
0036F0 47B0 981E      036F8        4382+         BNL   MPXRST6             POST AT DEVICE END           @DA02845 27105031
0036F4 4830 3008            00008  4383+         LH    R3,PUBPTR           WE STILL HAVE HQPTR IN R3    @DA02845 27110031
0036F8 5030 DA8C            0DC40  4384+MPXRST6  ST    R3,SAVMPXR3         INDICATE RESTART MPX         @DA02845 27115031
0036FC 1BFF                        4385+         SR    RF,RF               - THESE FOUR INSTRUCTIONS    @DA02845 27120031
0036FE 43F0 00BA            000BA  4386+         IC    RF,CHNADR           - POINT REGISTER F TO THE    @DA02845 27125031
003702 43FF 08FE            008FE  4387+         IC    RF,BUCKDIS(RF)      CHANNEL BUCKET CORRESPONDING @DA02845 27130031
003706 5AF0 0728            00728  4388+         A     RF,AREGSAV          - TO THE LAST INTERR CHAN    @DA02845 27135031
00370A 47F0 9856      03730        4389+         B     SVFRSTRG            SAVE THIS ADDRESS FOR SCAN   @DA02845 27140031
                            0370E  4390+INITRG1  EQU   * .                 START SCANNING PUBS                   27150028
00370E 58D0 0884            00884  4391+         L     RD,IOSBASE          SET UP IOS BASE REGISTER     @D34SDAP 27200034
003712 1BFF                        4392+         SR    RF,RF .             - THESE FOUR INSTRUCTIONS      -   RW 27900028
003714 43F0 00BA            000BA  4393+         IC    RF,CHNADR .         - POINT REGISTER RF TO THE     -   RW 27950028
003718 43FF 08FE            008FE  4394+         IC    RF,BUCKDIS(RF) .    CHANNEL BUCKET CORRESPONDING      191 28000028
00371C 5AF0 0728            00728  4395+         A     RF,AREGSAV .        - TO THE LAST INTERRUPTED CHAN.-   RW 28050028
                            00000  4396+         USING REGADR,RF .         MAKE IT ADDRESSABLE                 HL 28100028
003720 5830 F00C            0000C  4397+         L     R3,SAVRG3 .         LOAD ADDRESS OF LAST PUB STARTED   RW 28150028
003724 4930 0690            00690  4398+INITRG4  CH    R3,YPUBTAB .        IS IT HEAD QUEUE REQUEST     @DM03715 28150529
003728 47B0 9856      03730        4399+         BNL   SVFRSTRG .          NO, PUB POINTER  OK          @DM01647 28151028
00372C 4830 3008            00008  4400+         LH    R3,PUBPTR .         POINT R3 TO ORIGINAL PUB     @DM01647 28151528
003730 1803                        4401+SVFRSTRG LR    R0,R3 .             SAVE THIS ADDRESS            @DM01647 28200028
003732 4550 9868            03742  4402+SVMPXH   BAL   R5,INITRG2          SET UP REGISTER 5            @DA08154 28250033
003736 4930 0690            00690  4403+         CH    R3,YPUBTAB .        IS IT HEAD QUEUE REQUEST     @DM01647 28252028
00373A 47B0 9868      03742        4404+         BNL   INITRG2 .           NO,DO NOT CHANGE R3          @DM01647 28254028
00373E 4830 3008            00008  4405+         LH    R3,PUBPTR .         POINT R3 TO ORIGINAL PUB     @DM01647 28256028
003742 4130 3008            00008  4406+INITRG2  LA    R3,NEXTPUB .        BUMP TO NEXT PUB ENTRY       @DM01647 28300028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003746 D500 3000 00BA 00000 000BA  4407+         CLC   PUBCHANN(L1),CHNADR IS THIS PUB ON THE SAME CHANNEL      28350028
00374C 47D0 9894      0376E        4408+         BNH   FREDEV1 .           IF SO, GO AND TEST FOR FREE DEV.      28400028
003750 5830 F000            00000  4409+         L     R3,FIRSTPUB .       CONTINUE PUBSCAN WITH FIRST PUB    RW 28450028
003754 4550 9894            0376E  4410+         BAL   R5,FREDEV1 .        TEST FOR FREE DEVICE               RW 28500028
003758 4930 0690            00690  4411+SVMPXBAL CH    R3,YPUBTAB          IS IT HEAD QUEUE REQUEST     @DA02845 28550031
00375C 47B0 988A      03764        4412+         BNL   INITRG3 .           NO,DO NOT CHANGE R3          @DM01647 28654028
003760 4830 3008            00008  4413+         LH    R3,PUBPTR .         POINT R3 TO ORIGINAL PUB     @DM01647 28656028
003764 1930                        4414+INITRG3  CR    R3,R0 .             PUBSCAN COMPLETED?           @DM01647 28656528
003766 47B0 DA0E      0DBC2        4415+         BNL   ENDRSTX             YES,EXIT                     @DM03715 28657629
00376A 4130 3008            00008  4416+SVMPXL   LA    R3,NEXTPUB          BUMP TO NEXT PUB ENTRY       @DA02845 28667631
00376E 9103 3007      00007        4417+FREDEV1  TM    PUBJCFLG,HQIPR .    HEAD QUEUE ACTIVE            @DM01647 28702028
003772 4710 98C4      0379E        4418+         BO    INITHQIO .          YES,SETUP HEAD QUEUE I/O     @DM01647 28704028
003776 95FF 3002      00002        4419+FREDEV2  CLI   PUBCHQPT,NOTQUED .  ANY OUTSTANDING REQUESTS     @DM01647 28750028
00377A 0785                        4420+         BCR   E,R5 .              NO,BUMP TO NEXT PUB                    28800028
00377C 4570 0B20            00B20  4421+INITSIO  BAL   R7,CQDSP .          SET UP I/O REGISTERS                   29100028
003780 9604 0739      00739        4422+         OI    SYSFLAG2,AFTIOINT   SET AFTER INTERRUPT BIT ON  @DM11647 29102031

003784 9160 1006      00006        4424+         TM    CCBCLS,BTTR         TRANSL.BTAM REQUEST          @DM00607 29115028
003788 47E0 D440      0D5F4        4425+         BNO   GIOADR .           NO,BRANCH TO START I/O       @DM03638 29120028
00378C 9198 3006      00006        4426+         TM    PUBCSFLG,DEVBSY+QEDERR+OPINTV DEV.BUSY OR ERROR  @DM04701 29121028
003790 0775                        4427+         BCR   NZ,R5               YES,SCAN NEXT PUB            @DM04701 29122028
003792 5890 077C            0077C  4428+         L     R9,ACCWT .          SET BASE FOR CCWT-MOD        @DM03638 29125028
                            06B70  4429+         USING CCWTADR,R9                                       @DM03638 29130028
003796 4580 914C            06CBC  4430+         BAL   R8,CCWTRBT2 .       TRANSLATE NEW VIRT.CHAN.PRO  @DM03638 29135028
                            02EDA  4431+         USING INTRTN,R9 .         RESET STANDARD ADDRESSING    @DM03638 29140028

00379A 47F0 D440      0D5F4        4433+         B     GIOADR .            BRANCH TO START I/O                    29150028
00379E 5870 B5B8            015B8  4434+INITHQIO L     R7,AHQTAB .         ADRESS OF HEAD QUEUE TABLE   @DM01647 29152028
0037A2 4177 000C            0000C  4435+INITHQ1  LA    R7,HQLENGTH(R7) .   FIRST/NEXT ENTRY            @DM01647 29154028
                            00000  4436+         USING HQADR,R7 .                                       @DM01647 29156028
0037A6 4930 7008            00008  4437+         CH    R3,HQPUBPTR .       HEAD QUEUE FOR SAME DEVICE   @DM01647 29158028
0037AA 4770 98C8      037A2        4438+         BNE   INITHQ1 .           NO,TEST NEXT ENTRY           @DM01647 29160028
0037AE 9103 7007      00007        4439+         TM    HQJCFLG,HQIPR .     REQUEST ALREADY STARTED      @DM03444 29162028
0037B2 4770 98C8      037A2        4440+         BNZ   INITHQ1 .           NO,TEST NEXT ENTRY           @DM03444 29164028
0037B6 9180 3006      00006        4441+         TM    PUBCSFLG,DEVBSY .   IS DEVICE 'NORMAL' BUSY     @DA00541 29164430
0037BA 4780 98EC      037C6        4442+         BZ    INITHQ5 .           NO, CONTINUE                 @DA00582 29164530
0037BE 9110 3006      00006        4443+         TM    PUBCSFLG,QEDERR .   IS DIVICE QUEUED FOR ERROR  @DA00582 29164630
0037C2 4780 989C      03776        4444+         BZ    FREDEV2 .           NO, CONTINUE PUB SCAN        @DA00582 29164830
                            037C6  4445+INITHQ5  EQU   * .                                            @DA00582 29165230
0037C6 1837                        4446+         LR    R3,R7 .             POINT PUB-PTR TO COPIED PUB  @DM01647 29166028
0037C8 47F0 98A2      0377C        4447+         B     INITSIO .           GOTO SETUP I/O REGISTERS     @DM01647 29168028
                            00000  4448+         USING CCWADR,R7           RESTORE STANDARD ADDRESSING  @DM01647 29801028


                            037CC  4450+CSWSTORD EQU   *                                              @DY14616 29866034
0037CC 18EF                        4451+         LR    RE,RF               USE RE AS BASE FOR BUCKET    @DY20156 29886034
                            00000  4452+         USING REGADR,RE           **************************** @DY20156 29888034
0037CE 1883                        4453+         LR    R8,R3               COPY PUB ADDRESS             @DY14616 29890034
0037D0 4930 0690            00690  4454+         CH    R3,YPUBTAB          HEADQUEUE REQUEST            @DY14616 29896034
0037D4 47B0 9902      037DC        4455+         BNL   CSWSTOR2            NO                           @DY14616 29902034
0037D8 4880 3008            00008  4456+         LH    R8,PUBPTR           POINT TO ORIGINAL PUB        @DY14616 29908034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0037DC 5020 F008            00008  4457+CSWSTOR2 ST    R2,SAVRG2           DEVICES CCU                  @DY14616 29914034
0037E0 92FF F008      00008        4458+         MVI   SAVRG2,XFF          FOR MAINTENANCE              @DY14616 29917034
0037E4 9106 0045      00045        4459+         TM    CHNSTA,CHNCHK       CHANNEL CHECK ON SIO         @DY14616 29926034
0037E8 58F0 0820            00820  4460+         L     RF,RASBASE .        GET BASE ADDRESS FOR RAS           HL 30000028
0037EC 4780 9924      037FE        4461+         BZ    NRTASIO .           NO GO CHECK RAS REQUEST      @D34SDAP 30050034
0037F0 9602 0819      00819        4462+         OI    RASFLAGS,CCSIOB .   TURN ON SIO BIT FOR RAS              30100028
0037F4 D702 0041 0041 00041 00041  4463+         XC    CCWDRS(L3),CCWDRS .CLEAR OLD COMMAND ADDRESS     @DM00217 30250028
                            0C27A  4464+         USING MCSTRT,RF .         DECLARE RAS BASE                   HL 30350028
0037FA 47F0 F27C      0C4F6        4465+         B     CCENTRY1 .          GO TO CHANNEL CHECK HANDLER        HL 30400028

                            037FE  4467+NRTASIO  EQU   *                                                    @DF02838 30840028
0037FE 9509 4004      00004        4468+         CLI   REQID,CRT .         CRT REQUEST                  @DF02838 30940028
003802 4770 9940      0381A        4469+         BNE   NOCRTSIO .         NO                           @DF02838 30990028
003806 9180 0044      00044        4470+         TM    DEVSTA,ATTENT .     WAS ATTENTION PENDIG         @DF02838 30992028
00380A 47E0 993C      03816        4471+         BNO   NRTASIO1 .          NO                           @DF04339 30994028
00380E 9608 B8A8      018A8        4472+         OI    CRTFLG2,CRTATTPD .  FLAG ATTENTION PENDING       @DF04219 30994428
003812 47F0 D89E      0DA52        4473+         B     NOCRT .             REISSUE SIO                  @DM06671 30994829
003816 5870 0048            00048  4474+NRTASIO1 L     R7,CAW .            RELOAD CCW-POINTER           @DF04219 30996028
                            0381A  4475+NOCRTSIO EQU   *                                                    @DF02838 30998028
00381A 913F 0045      00045        4476+         TM    CHNSTA,XFF-PCI-IL .ANY STATUS BUT PCI OR INCORR. LEN 435 31000028
00381E 4770 999E      03878        4477+         BNZ   IMDCMD .            IF YES,BRANCH TO PROCESS CSW       31050028
003822 9150 0044      00044        4478+         TM    DEVSTA,STATMOD+BUSY CONTROL UNIT BUSY            @DM03715 31054029
003826 47E0 9964      0383E        4479+         BNO   NOCUBSY             NO                           @DM03715 31056029
00382A 5080 E00C            0000C  4480+         ST    R8,SAVRG3           SAVE PUB ADDRESS             @DY20156 31058034
                                   4481+         DROP  RE                  **************************** @DY20156 31060034
00382E 5870 DA90            0DC44  4482+         L     R7,CHENTAD          POINT TO CHAN.TAB.ENTRY      @DM03715 31064029
003832 9110 7000      00000        4483+         TM    D0(R7),MPXCHN       BYTE MULTIPLEXOR             @DM03715 31066029
003836 47E0 9964      0383E        4484+         BNO   NOCUBSY             NO                           @DM03715 31068029
00383A 9200 DA8E      0DC42        4485+         MVI   REMPX,ZERO          STOP SCAN.MPX PUBS FOR RESTRT@DM03715 31070029
00383E 91AF 0044      00044        4486+NOCUBSY  TM    DEVSTA,XFF-STATMOD-BUSY ANY STAT BUT BUSY OR SM  @DY13869 31072034
003842 0786                        4487+         BCR   Z,R6 .              NO,EXIT                                31150028
003844 9170 0044      00044        4488+         TM    DEVSTA,STATMOD+BUSY+CUEND SHORT BUSY SEQUENCE    @DA06798 31192033
003848 4710 D7FC      0D9B0        4489+         BO    STRTIO2             YES, RETRY                   @DA06798 31194033
00384C 9560 3004      00004        4490+         CLI   PUBDEVTY,DASD .     IS DEVICE A NEW TAPE                   31400128
003850 47B0 999E      03878        4491+         BNL   IMDCMD .            NO,SKIP                                31400528
003854 9551 3004      00004        4492+         CLI   PUBDEVTY,T2495TC .  SKIP ALL BUT NEW TAPES                 31410028
003858 47D0 999E      03878        4493+         BNH   IMDCMD .            INCLUDING 2400 SERIES                  31410528
00385C 9514 0044      00044        4494+         CLI   DEVSTA,BUSY+DEVEND  VOL CHANGE FOR 3410 OR 3420 TAPE       31420528
003860 4770 999E      03878        4495+         BNE   IMDCMD .            NO,BRANCH                              31421028
003864 45E0 B292            01292  4496+         BAL   RE,RMSGETP2 .       GO GET PUB2 ADDRESS                    31421528
                            00000  4497+         USING PUB2ADR,R8 .        SET BASE                               31422028
003868 9104 8003      00003        4498+         TM    P2FLAGS,P2OPEN .    OPENED VOLUME                          31422528
00386C 47E0 D7F8      0D9AC        4499+         BNO   STRTIO .            REISSUE SIO                            31423028
003870 9644 8008      00008        4500+         OI    P2TFLG1,P2TUNSOL+P2TECPT POST TAPE VOLUME CHANGED        31423528
003874 47F0 9A54      0392E        4501+         B     INTENOP             TREAT AS NOT OPERATIONAL     @D34SDAP 31423634
                            00000  4502+         USING SVEARA,R8 .         STANDARD ADDRESSING                    31424028

003878 5870 0048            00048  4504+IMDCMD   L     R7,CAW .            LOAD ORIGINAL CCW ADDRESS    @DM03552 31950028
00387C 4180 7008            00008  4505+         LA    R8,CCWNEXT .        GET NEXT CCW ADDRESS         @DM03552 32050028
003880 5080 0040            00040  4506+         ST    R8,CSW .            AND STORE IN CSW                       32100028
003884 4020 00BA            000BA  4507+         STH   R2,CHNADR .         STORE CHANNEL & UNIT IN I/O OLD PSW    32150028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003888 9530 0044      00044        4508+         CLI   DEVSTA,CUEND+BUSY  CUE + BUSY                    @DA05977 32152532
00388C 4780 99BE      03898        4509+         BE    IMDCMD2            GO TRY ANOTHER SIO            @D34SDAP 32155034
003890 9680 3006      00006        4510+         OI    PUBCSFLG,DEVBSY .  SET DEVICE BUSY                   486 32160028
003894 4580 D904            0DAB8  4511+         BAL   R8,JOBACC          BRANCH TO SIO ACCT            @DA02522 32180032
                            03898  4512+IMDCMD2  EQU   *                                                @D34SDAP 32191034
003898 9503 4004      00004        4513+         CLI   REQID,RASID .      WAS THIS A RAS REQUEST        @D34SDAP 32193034
00389C 4770 90A4      02F7E        4514+         BNE   NOTRTA             NO, THIS IS A NORMAL SIO      @D34SDAP 32194034
0038A0 9506 F6EA      0C964        4515+         CLI   RTAID,RASRTYID .   RAS RETRY REQUEST            @D34SDAP 32195034
0038A4 4780 F37C      0C5F6        4516+         BE    CCENTRY2 .         YES, GO PROCESS RETRY COMPL.  @D34SDAP 32196034
                                   4517+         DROP  RF                                                     32197034
0038A8 47F0 90A4      02F7E        4518+         B     NOTRTA .           GO PROCESS INTERRUPT                   32200028


                            038AC  4520+PUBSCAN  EQU   * .                SCAN PUBS IF NOT LAST PUB STARTED      32300028
                            00000  4521+         USING REGADR,RF                                              32310028
0038AC 5830 F000            00000  4522+         L     R3,FIRSTPUB .      LOAD ADDRESS OF FIRST PUB ON CHANNEL   32550028
0038B0 D500 3000 00BA 00000 000BA  4523+FINDPUB  CLC   PUBCHANN(L1),CHNADR STILL ON THE RIGHT CHANNEL?          32650028
0038B6 47D0 9A0A      038E4        4524+         BNH   FINDPUB1           TRY TO FIND THE RIGTH PUB     @DY11696 32655034
0038BA 9106 0045      00045        4525+RASPUB   TM    CHNSTA,CHNCHK      CHANNEL ERROR                 @DY11696 32660034
0038BE 4780 97B6      03690        4526+         BZ    INITRG             NO, NO SPECIAL ACTION         @DY11696 32660434
0038C2 1873                        4527+         LR    R7,R3              SAVE THIS ADDRESS             @DY11696 32661234
0038C4 4B30 08F2            008F2  4528+         SH    R3,H8              LET R3 POINT WITHIN PUBS OF   @DY11696 32661634
                                   4529+*                                  RIGTH CHANNEL                 @DY11696 32662034
0038C8 95FF 7000      00000        4530+         CLI   D0(R7),XFF         PAST PUBS                     @DY11696 32662434
0038CC 4770 9A00      038DA        4531+         BNE   RASPUB2            NO, INDICATE NOT FOUND        @DY11696 32662834
0038D0 BD22 3000            00000  4532+         CLM   R2,M2,PUBCHANN     ARE THERE PUBS FOR THIS CHNL  @DY11696 32663234
0038D4 47D0 9A00      038DA        4533+         BNH   RASPUB2            YES, INDICATE NOT FOUND       @DY11696 32663634
0038D8 1837                        4534+RASPUB1  LR    R3,R7              NO PUBS ON INT CHANNEL        @DY11696 32669034
0038DA BF38 9A00            038DA  4535+RASPUB2  ICM   R3,M8,*            IND PUB NOT FOUND FOR RAS     @DY11696 32670034
0038DE 1B11                        4536+         SR    R1,R1              CLEAR R1                      @DY14540 32670534
0038E0 47F0 904A      02F24        4537+         B     TESTCE             GO, HANDLE                    @DY11696 32671034
                                   4538+*                                                               @D34SDAP 32672034
                                   4539+*        UNIT CHECK FROM NOT ADDED DEVICE WILL NOT BE CLEARED   @D34SDAP 32676034
                                   4540+*                                                               @D34SDAP 32684034
                                   4541+*                                                               @D34SDAP 32692034
0038E4 BD21 3001            00001  4542+FINDPUB1 CLM   R2,M1,PUBCHANN+1  IS THIS THE RIGHT PUB?         @DA06999 32750032
0038E8 4780 9A1A      038F4        4543+         BE    HQSCAN .           YES, SET UP REGISTERS         @DM01647 32800028
0038EC 4130 3008            00008  4544+         LA    R3,NEXTPUB .       BUMP TO NEXT PUB ENTRY                 32850028
0038F0 47F0 99D6      038B0        4545+         B     FINDPUB .          TRY AGAIN                              32900028
0038F4 9103 3007      00007        4546+HQSCAN   TM    PUBJCFLG,HQIPR .   IS HEAD QUEUE IN PROCESS     @DM01647 32902028
0038F8 47E0 9A44      0391E        4547+         BNO   PUBFOUND .         NO,SETUP REGISTERS            @DM01647 32904028
0038FC 5870 B5B8            015B8  4548+         L     R7,AHQTAB .        ADDRESS OF HEAD QUEUE TABLE   @DM01647 32906028
                            00000  4549+         USING HQADR,R7 .                                     @DM01647 32908028
003900 4177 000C            0000C  4550+HQSCAN1  LA    R7,HQLENGTH(R7) .  FIRST/NEXT HEAD QUEUE ENTRY   @DM01647 32910028
003904 4930 7008            00008  4551+         CH    R3,HQPUBPTR .      HEAD QUEUE FOR SAME DEVICE    @DM01647 32912028
003908 4770 9A26      03900        4552+         BNE   HQSCAN1            NO,TEST NEXT ENTRY            @DM01647 32914028
00390C 9103 7007      00007        4553+         TM    HQJCFLG,HQIPR .    REQUEST ALREADY STARTED       @DM03444 32916028
003910 4770 9A26      03900        4554+         BNZ   HQSCAN1 .           NO,TEST NEXT ONE              @DM03444 32918028
003914 9180 7006      00006        4555+         TM    HQCSFLG,DEVBSY .   REQUEST ALREADY STARTED      @DM03111 32918428
003918 47E0 9A44      0391E        4556+         BNO   PUBFOUND .         NO,USE THE ORIGINAL PUB       @DM03111 32918828
00391C 1837                        4557+         LR    R3,R7 .            POINT PUB-PTR TO COPIED PUB   @DM01647 32920028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            00000  4558+         USING CCWADR,R7 .                                          @DM01647 32922028
00391E 4570 0B20            00B20  4559+PUBFOUND BAL   R7,CQDSP .       SET UP I/O REGISTERS                    JK 32950028
003922 47F0 904A      02F24        4560+         B     TESTCE .         CONTINUE INTERRUPT PROCESSING              33450028

003926 0000
003928 00003A56                    4562+ASNSINIT DC    A(SNSINIT)       BASE OF I/O ERROR PROCESSING @DY11919 33615034
                                   4563+*                               ROUTINES.                    @DY11919 33620034
                                   4564+*                               ALSO SENSE SYSTEM TASK BASE  @DY11919 33625034
                                   4565+         DROP  RD                                           @D34SDAP 33630034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 4568+*************************************************************@D34SDAP 50008034
                                 4569+*                                                            @D34SDAP 50088034
                                 4570+*   FUNCTION      THE MAIN FUNCTION OF THE I/O ERROR PROCESSOR @D34SDAP 50128034
                                 4571+*                 IS TO RETRIEVE ALL THE INFORMATION WHICH IS  @D34SDAP 50168034
                                 4572+*                 NECESSARY FOR THE RESIDENT DISK ERROR RECVRY @D34SDAP 50208034
                                 4573+*                 OR THE TRANSIENT ERROR RECOVERY PROCEDURES   @D34SDAP 50288034
                                 4574+*                 TO SUCCESSFULLY RECOVER FROM THE ERROR.      @D34SDAP 50328034
                                 4575+*                 ALL THIS INFORMATION IS SAVED IN A SO CALLED @D34SDAP 50368034
                                 4576+*                 ERROR QUEUE ENTRY WHICH IS PART OF THE ERROR @D34SDAP 50408034
                                 4577+*                 BLOCK.                                       @D34SDAP 50488034
                                 4578+*                 DISK ERROR ENTRIES (EXCLUDING THE 2321) ARE  @D34SDAP 50528034
                                 4579+*                 SEPERATED BY OTHER ERROR QUEUE ENTRIES       @D34SDAP 50568034
                                 4580+*                 WITHIN THIS ERROR BLOCK.                     @D34SDAP 50608034
                                 4581+*                 THE I/O ERROR PROCESSOR IS SUBDIVIDED INTO   @D34SDAP 50688034
                                 4582+*                 THREE MAJOR PARTS:                           @D34SDAP 50728034
                                 4583+*                    1.   DEVICE NOT OPERATIONAL     PROCESSOR @D34SDAP 50768034
                                 4584+*                    2.   ABNORMAL CHANNEL STATUS    PROCESSOR @D34SDAP 50808034
                                 4585+*                    3.   UNIT CHECK                 PROCESSOR @D34SDAP 50888034
                                 4586+*                    IN ADDITION TO THESE MAJOR PARTS A SET OF @D34SDAP 50928034
                                 4587+*                    SUBROUTINES HAS BEEN ESTABLISHED.         @D34SDAP 50968034
                                 4588+*                       1.   ALLOCATE FREE ERROR QUEUE ENTRY   @D34SDAP 51048034
                                 4589+*                       2.   SET UP AN ERROR QUEUE ENTRY       @D34SDAP 51088034
                                 4590+*                       3.   FREE ALLOCATED ERROR QUEUE ENTRY  @D34SDAP 51128034
                                 4591+*                                                              @D34SDAP 51168034
                                 4592+*   ENTRY POINTS                                               @D34SDAP 51208034
                                 4593+*                                                              @D34SDAP 51288034
                                 4594+*                 INTENOP     DEVICE NOT OPERATIONAL          @D34SDAP 51328034
                                 4595+*                 INTERRCC    ABNORMAL CHANNEL STATUS         @D34SDAP 51368034
                                 4596+*                 INTTRANS                                    @DY11919 51388034
                                 4597+*                 INTERRUC    UNIT CHECK                      @D34SDAP 51408034
                                 4598+*                 INTOBR                                      @DY11919 51448034
                                 4599+*                                                              @D34SDAP 51488034
                                 4600+*   REGISTER INPUT                                             @D34SDAP 51528034
                                 4601+*                                                              @D34SDAP 51568034
                                 4602+*                 REGISTER  1     POINTER TO USERS CCB        @D34SDAP 51608034
                                 4603+*                 REGISTER  3     POINTER TO PUB              @D34SDAP 51688034
                                 4604+*                 REGISTER  4     POINTER TO CHANQ ENTRY      @D34SDAP 51728034
                                 4605+*                 REGISTER  6     DISPATCHER BASE ADDRESS     @D34SDAP 51768034
                                 4606+*                 REGISTER  9     BASE REGISTER               @D34SDAP 51808034
                                 4607+*                 REGISTER 11     SUPERVISOR BASE REGISTER    @D34SDAP 51888034
                                 4608+*                                                              @D34SDAP 51928034
                                 4609+*   REGISTER OUTPUT                                            @D34SDAP 51968034
                                 4610+*                                                              @D34SDAP 52008034
                                 4611+*                 REGISTER  0     UNPREDICTABLE               @D34SDAP 52088034
                                 4612+*                 REGISTER  2     POINTER TO ERROR QUEUE ENTRY @D34SDAP 52128034
                                 4613+*                 REGISTER  5     POINTER TO ERROR BLOCK      @D34SDAP 52168034
                                 4614+*                 REGISTER  7     UNPREDICTABLE               @D34SDAP 52208034
                                 4615+*                 REGISTER  8     UNPREDICTABLE               @D34SDAP 52248034
                                 4616+*                 REGISTER 14     UNPREDICTABLE               @D34SDAP 52288034
                                 4617+*                 REGISTER 15     UNPREDICTABLE               @D34SDAP 52328034
                                 4618+*                                                              @D34SDAP 52368034
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LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

4619+**********@D34SDAP 52408034

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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            03A56  4621+         USING SNSINIT,RD         ADDRESSABILITY               @DY11919 52449034
00392C 00                          4622+INTSNSF  DC    X'00'              SNSTASK FLAG BYTE            @DY20398 52450034
                            00080  4623+SNSWORK  EQU   X'80'              CHECK ANY PUB FOR UC PENDING @D34SDAP 52451034
                            00040  4624+SNSDVFRI EQU   X'40'              DEVICE WAS FREED INDICATOR   @D34SDAP 52452034
                            00020  4625+INTIGN   EQU   X'20'              ERP IGNORE WHEN OP.INTV.REQ  @D34MDEP 52453034
00392D 00                          4626+INTDSKF  DC    X'00'              SNS/DSK FLAG BYTE            @DY20398 52453334
                            00080  4627+WORKHA   EQU   X'80'              SGDSK HAS TO DO READ HAR0    @DY20398 52453634



00392E 58D0 9A4E            03928  4629+INTENOP  L     RD,ASNSINIT        GET BASE                     @DY11919 52455034
003932 47F0 D000      03A56        4630+         B     INTEN2             SCHEDULE APPROPRIATE ROUTINE @DY11919 52456034

003936 58D0 9A4E            03928  4632+INTERRCC L     RD,ASNSINIT        GET BASE                     @DY11919 52458034
00393A 47F0 D044      03A9A        4633+         B     INTERRC2           SCHEDULE APPROPRIATE ROUTINE @DY11919 52459034

00393E 58D0 9A4E            03928  4635+INTTRANS L     RD,ASNSINIT        GET BASE                     @DY11919 52461034
003942 47F0 D052      03AA8        4636+         B     INTTRNS2           SCHEDULE APPROPRIATE ROUTINE @DY11919 52462034

003946 58D0 9A4E            03928  4638+INTERRUC L     RD,ASNSINIT        GET BASE                     @DY11919 52464034
00394A 47F0 D084      03ADA        4639+         B     INTUC2             SCHEDULE APPROPRIATE ROUTINE @DY11919 52465034

                                   4641+************************************************************@D34SDAP 52467034
                                   4642+* NEXT ROUTINE HAS BEEN MOVED HERE FOR ADDRESSABILITY REASONS  @DY11919 52468034
                                   4643+*                                                             @D34SDAP 52469034
                                   4644+*       GENERAL EXIT ROUTINE                                  @D34SDAP 52470034
                                   4645+*                                                             @D34SDAP 52488034
                                   4646+************************************************************@D34SDAP 52488234



                            0394E  4648+INTEEXIT EQU   *                                            @D34SDAP 52488634
00394E 1211                        4649+         LTR   R1,R1              REQUEST STILL QUEUED         @D34SDAP 52488834
003950 4780 9AA6      03980        4650+         BZ    INTEINI1           NO, START ANOTHER I/O        @D34SDAP 52489034
003954 910F 4004      00004        4651+         TM    REQID,X0F          IS IT SYSTEM TASK            @DY15708 52489234
003958 4780 9AA6      03980        4652+         BZ    INTEINI1           NO, START ANOTHER I/O        @DY15708 52489334
00395C 960C 0044      00044        4653+         OI    DEVSTA,CHANEND+DEVEND FORCE DEQUEUING OF ENTRY @D34SDAP 52489634
003960 9620 1002      00002        4654+         OI    CCBCOM1,DISERR     POST DISASTER IN CCB         @D34SDAP 52489834
003964 41F0 918E            03068  4655+INTNOERR LA    RF,TSTATTN         SET UP RETURN REGISTER       @DY13441 52490034
003968 4570 D258            03CAE  4656+         BAL   R7,INTEQFRI        FREE THE ALLOCATED ENTRY     @D34SDAP 52490434
00396C 47F0 9AAA      03984        4657+         B     INTERTRN           RESUME INTERRUPT PROCESSING  @D34SDAP 52490634
003970 4570 D258            03CAE  4658+INTEDEQ  BAL   R7,INTEQFRI        FREE THIS ERROR ENTRY        @D34SDAP 52490834
003974 41F0 9352            0322C  4659+INTEDEQ1 LA    RF,TRNOFF          SET UP RETURN REGISTER       @D34SDAP 52491034
003978 47F0 9AAA      03984        4660+         B     INTERTRN           DEQUEUE THIS REQUEST         @D34SDAP 52491234
00397C 4570 D258            03CAE  4661+INTEINIT BAL   R7,INTEQFRI        FREE THIS ERR.QUEUE ENTRY    @D34SDAP 52491434
003980 41F0 956E            03448  4662+INTEINI1 LA    RF,INITHQ          SET UP RETURN REGISTER       @D34SDAP 52491634
003984 58D0 0884            00884  4663+INTERTRN L     RD,IOSBASE         SET UP IOS BASE REGISTER     @DY11919 52491834
003988 07FF                        4664+         BR    RF                 RESUME INTERRUPT PROCESSING  @DY11919 52492034

                            00080  4666+CLRUCIND EQU   X'80'              DO CLEAR UNIT CHECK ONLY     @D34SDAP 52492434
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00040  4667+PUBWASEQ EQU   X'40'            ERROR WAS ALREADY QUEUED     @D34SDAP 52492634
                           00020  4668+DSKCNTDN EQU   X'20'            COUNT MUST BE DECREMENTED    @D34SDAP 52492834
                           00010  4669+ALTCHANN EQU   X'10'            ALTERNATE CHANNEL ERROR      @DM11632 52493034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  4671+*************************************************************@DY11919 52493434
                                  4672+* NEXT ROUTINE HAS BEEN MOVED HERE FOR ADDRESSABILITY REASONS  @DY11919 52493634
                                  4673+*                                                              @DY11919 52493834
                                  4674+*       NEXT ROUTINE GATES A CHANNEL ON WHICH ACTIVITY IS      @DY11919 52494034
                                  4675+*       CURRENTLY IN PROCESS BY THE SENSE SYSTEM TASK OR       @DY11919 52494234
                                  4676+*       RESIDENT DISK ERROR RECOVERY                           @DY11919 52494434
                                  4677+*                                                              @DY11919 52494634
                                  4678+*************************************************************@DY11919 52494834

00398A 4100 0001            00001 4680+INTGATUP LA    R0,ONE             SET R0 TO PLUS ONE          @D34SDAP 52495234
00398E 47F0 9ABC      03996       4681+         B     INTGAT10                                       @D34SDAP 52495434
003992 4100 00FF            000FF 4682+INTGATDN LA    R0,XFF             SET R0 TO MINUS ONE         @D34SDAP 52495634
003996 1880                       4683+INTGAT10 LR    R8,R0              CLEAR FIRST 3 BYTES         @D34SDAP 52495834
003998 4380 3000            00000 4684+         IC    R8,PUBCHANN        GET CHANNEL ID              @D34SDAP 52496034
00399C 4388 08F6            008F6 4685+         IC    R8,CHNDIS(R8)      GET CONTROL ENTRY OFFSET    @D34SDAP 52497234
0039A0 5A80 0734            00734 4686+         A     R8,ACHNTAB         ADSOLUTE CONTROL ENTRY ADDR @D34SDAP 52497334
0039A4 4358 0001            00001 4687+         IC    R5,D1(R8)          GET CHANNEL ERROR COUNT     @D34SDAP 52497434
0039A8 1E05                       4688+         ALR   R0,R5              CALCULATE NEW ERROR COUNT   @D34SDAP 52497534
0039AA 4208 0001            00001 4689+         STC   R0,D1(R8)          SAVE NEW COUNT IN ENTRY     @D34SDAP 52497634
0039AE 9500 8001      00001       4690+         CLI   D1(R8),X'00'       IS COUNT ZERO               @D34SDAP 52497734
0039B2 4770 9AEC      039C6       4691+         BNE   INTGATEX           NO                          @D34SDAP 52497834
0039B6 9110 8000      00000       4692+         TM    D0(R8),MPXCHN      BYTE MULTIPLEX CHANNEL      @D34SDAP 52497934
0039BA 4780 9AEC      039C6       4693+         BZ    INTGATEX           NO,RETURN                   @D34SDAP 52498034
0039BE 5880 0884            00884 4694+         L     R8,IOSBASE         IOS BASE ADDRESS            @D34SDAP 52498134
                            0D1B4 4695+         USING SGIOS,R8           ESTABLISH ADDRESSABILITY    @D34SDAP 52498234
0039C2 5030 8A8C            0DC40 4696+         ST    R3,SAVMPXR3        FORCE RESTART OF BYTE MPX   @D34SDAP 52498434
0039C6 5850 06F8            006F8 4697+INTGATEX L     R5,AERBLOC         RESTORE ERROR BLOCK POINTER @D34SDAP 52498634
0039CA 07F7                       4698+         BR    R7                 RETURN TO MAIN LINE         @D34SDAP 52498834
                                  4699+         DROP  R8                                             @D34SDAP 52499034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  4701+*************************************************************@D34SDAP 52499434
                                  4702+* NEXT ROUTINE HAS BEEN MOVED HERE FOR ADDRESSABILITY REASONS  @DY11919 52499634
                                  4703+*                                                              @D34SDAP 52499834
                                  4704+*                                                              @D34SDAP 52500034
                                  4705+*   FUNCTION      THIS ROUTINE IS USED TO RETURN THE ADDRESS   @D34SDAP 52500234
                                  4706+*                 OF NEXT FREE ERROR QUEUE ENTRY.              @D34SDAP 52500434
                                  4707+*                 IF A FREE ERROR QUEUE ENTRY IS AVAILABLE, IT @D34SDAP 52500634
                                  4708+*                 WILL BE CLEARED TO BINARY ZEROS AND MARKED   @D34SDAP 52500834
                                  4709+*                 ACTIVE (ERRQFLG=X'01'). IN ADDITION EITHER   @D34SDAP 52501034
                                  4710+*                 THE DSK SYSTEM TASK, OR THE ERP SYSTEM TASK  @D34SDAP 52501234
                                  4711+*                 WILL BE ACTIVATED, DEPENDING ON THE DEVICE   @D34SDAP 52501434
                                  4712+*                 TYPE CODE POINTED TO BY REGISTER 3.          @D34SDAP 52501634
                                  4713+*                 THE ADDRESS OF THE ALLOCATED ERROR ENTRY     @D34SDAP 52501834
                                  4714+*                 WILL BE RETURNED IN REGISTER 2.              @D34SDAP 52502034
                                  4715+*                 IF NO FREE ERROR QUEUE ENTRY IS FOUND, THIS  @D34SDAP 52502234
                                  4716+*                 ROUTINE WILL RETURN ZERO IN REGISTER 2       @D34SDAP 52502434
                                  4717+*                                                              @D34SDAP 52502634
                                  4718+*   CALLING SEQUENCE                                           @D34SDAP 52502834
                                  4719+*                                                              @D34SDAP 52503034
                                  4720+*                 BAL   R7,INTOBRWD   SPECIAL ENTRY POINT      @D34SDAP 52503234
                                  4721+*                 BAL   R7,INTOBR     GENERAL ENTRY POINT      @D34SDAP 52503434
                                  4722+*                                                              @D34SDAP 52503634
                                  4723+*   REGISTER USAGE                                             @D34SDAP 52503834
                                  4724+*                                                              @D34SDAP 52504034
                                  4725+*                 REGISTER  0     USED INTERNALLY              @D34SDAP 52504234
                                  4726+*                 REGISTER  2     USED INTERNALLY              @D34SDAP 52504434
                                  4727+*                 REGISTER  3     POINTER TO PUB               @D34SDAP 52504634
                                  4728+*                 REGISTER  5     USED INTERNALLY              @D34SDAP 52504834
                                  4729+*                 REGISTER  7     USERS LINK REGISTER          @D34SDAP 52505034
                                  4730+*                 REGISTER  9     BASE REGISTER                @D34SDAP 52505234
                                  4731+*                 REGISTER 11     SUPERVISOR BASE REGISTER     @D34SDAP 52505434
                                  4732+*                                                              @D34SDAP 52505634
                                  4733+*   ENTERED FROM                                               @D34SDAP 52505834
                                  4734+*                                                              @D34SDAP 52506034
                                  4735+*                 ERROR HANDLER            IN IOINTER          @D34SDAP 52506234
                                  4736+*                 RETURN FROM CE-APPENDAGE IN IOINTER          @D34SDAP 52506434
                                  4737+*                 SVC 44 ROUTINE           IN SGSVCX           @D34SDAP 52506634
                                  4738+*                                                              @D34SDAP 52506834
                                  4739+*************************************************************@D34SDAP 52507034


                           039CC  4741+INTOBRWD EQU   *                SPECIAL ENTRY POINT          @D34SDAP 52507434
0039CC 5850 06F8           006F8  4742+         L     R5,AERBLOC       ADDRESS OF ERROR BLOCK       @D34SDAP 52507634
                           10260  4743+         USING ERBLOC,R5        MAKE ERROR BLOCK ADDRESSABLE @D34SDAP 52507834
                           00000  4744+         USING ERRQUE,R2        MAKE ERROR ENTRY ADDRESSABLE @DY11919 52507934
0039D0 9560 0870      00870        4745+         CLI   DEVZON,DASD    IS THIS A DASD DEVICE        @D34SDAP 52508034
0039D4 4770 9B34      03A0E        4746+         BNE   INTOBR10       NO, TAKE GENERAL ENTRY       @D34SDAP 52508234
0039D8 9561 3004      00004        4747+         CLI   PUBDEVTY,T2321 IS THIS THE DATA CELL        @D34SDAP 52508434
0039DC 4780 9B34      03A0E        4748+         BE    INTOBR10       YES, TAKE GENERAL ENTRY      @D34SDAP 52508634
0039E0 4120 52A4           10504   4749+         LA    R2,ERQDRES     POINT TO DSK ERP'S OWN ENTRY @DY15773 52508834
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0039E4 1211                      4750+         LTR   R1,R1             CCB/CHANQ ENTRY AVAILABLE    @DY15773 52508934
0039E6 4780 9B18      039F2      4751+         BZ    INTOBR05          NO                           @DY15773 52509034
0039EA 9502 4004      00004      4752+         CLI   REQID,DSK         DISK ERP REQUEST             @DY15773 52509134
0039EE 4780 9B64      03A3E      4753+         BE    INTOBR32          YES, USE HIS OWN ENTRY       @DY15773 52509234
0039F2 4120 51C8             10428 4754+INTOBR05 LA    R2,ERQD1          POINT TO 1. DISK ERROR ENTRY @DY15773 52509334
0039F6 4100 0005             00005 4755+         LA    R0,NODSKEQE       NUMBER OF DISK ERROR ENTRIES @D34SDAP 52509634
0039FA 9101 200A      0000A      4756+         TM    ERRQFLG,OCCUP     IS DISK ERP IN PROCESS       @D34SDAP 52509734
0039FE 4710 9B5C      03A36      4757+         BO    INTOBR30          YES, NO NEED TO ACTIVATE     @D34SDAP 52509834
003A02 9283 B5D0      015D0      4758+         MVI   DSKFLG,READY      SET DISK ERP READY TO RUN    @D34SDAP 52509934
003A06 47F0 9B5C      03A36      4759+         B     INTOBR30          GO TO ALLOCATE FREE ENTRY    @D34SDAP 52510034
                             03A0A 4760+INTOBR   EQU   *               GENERAL ENTRY POINT          @D34SDAP 52510134
003A0A 5850 06F8             006F8 4761+         L     R5,AERBLOC        ADDRESS OF ERROR BLOCK       @D34SDAP 52510234
003A0E 4120 5010             10270 4762+INTOBR10 LA    R2,ERQ1           ADDRESS OF 1. ERROR ENTRY    @D34SDAP 52510434
003A12 9101 200A      0000A      4763+         TM    ERRQFLG,OCCUP     IS ERP IN PROCESS            @D34SDAP 52510634
003A16 4710 9B58      03A32      4764+         BO    INTOBR20          YES, NO NEED TO ACTIVATE ERP @D34SDAP 52510834
003A1A 95E9 5007      10267      4765+         CLI   FTCHNM,CZ         IS $$ABERRZ ACTIVE           @D34SDAP 52511034
003A1E 4780 9B58      03A32      4766+         BE    INTOBR20          YES, NO NEED TO ACTIVATE ERP @D34SDAP 52511234
003A22 95E9 5006      10266      4767+         CLI   FTCHNM-1,CZ       IS $$ABERZ1 OR ...Z2 ACTIVE  @D34SDAP 52511434
003A26 4780 9B58      03A32      4768+         BE    INTOBR20          YES, NO NEED TO ACTIVATE ERP @D34SDAP 52511634
003A2A 9285 B5D9      015D9      4769+         MVI   ERPFLG,PTABND     MAKE ERP PTA-BOUND TO ACTIV. @D34SDAP 52511834
003A2E 9680 0739      00739      4770+         OI    SYSFLAG2,INITERP  SET INITIAL SELECTION FLAG  @D34SDAP 52512034
003A32 4100 000A             0000A 4771+INTOBR20 LA    R0,10             GET NUMBER OF ERROR ENTRIES  @D34SDAP 52512234
003A36 9103 200A      0000A      4772+INTOBR30 TM    ERRQFLG,OCCUP+NEEDSNS IS ENTRY ALREADY IN USE  @D34SDAP 52512434
003A3A 4770 9B70      03A4A      4773+         BNZ   INTOBR40          YES, IT IS IN USE            @D34SDAP 52512634
003A3E D72B 2000 2000 00000 00000 4774+INTOBR32 XC    ERRQ,ERRQ         ELSE CLEAR THIS UNUSED ENTRY @DY15773 52512834
003A44 9601 200A      0000A      4775+         OI    ERRQFLG,OCCUP     INDICATE ENTRY ACTIVE        @D34SDAP 52513034
003A48 07F7                      4776+         BR    R7                RETURN     ENTRY ADDR. IN R2 @D34SDAP 52513234
003A4A 4122 002C             0002C 4777+INTOBR40 LA    R2,ERQLNG(R2)     POINT TO NEXT ERROR ENTRY    @D34SDAP 52513434
003A4E 4600 9B5C             03A36 4778+         BCT   R0,INTOBR30       ALL ENTRIES CHECKED          @D34SDAP 52513634
003A52 1722                      4779+         XR    R2,R2             YES, INDICATE UNSUCCESSFULL  @D34SDAP 52513834
003A54 07F7                      4780+         BR    R7                RETURN WITH FAIL INDICATION  @D34SDAP 52514034
                                 4781+         DROP  R5                                             @D34SDAP 52514234
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003A56                           4783+SNSINIT  DS    0H                BASE DEFINITION              @DY11919 52514634
                                 4784+*************************************************************@D34SDAP 52514834
                                 4785+*                                                             @D34SDAP 52528034
                                 4786+*        DEVICE NOT OPERATIONAL PROCESSOR                     @D34SDAP 52658034
                                 4787+*                                                             @D34SDAP 52708034
                                 4788+*************************************************************@D34SDAP 52788034


003A56 D201 0044 B590 00044 01590 4790+INTEN2   MVC   DEVSTA(L2),NOTOP  SET DEVICE NOT OPERATIONAL  @DY11919 52848034
003A5C 4020 00BA            000BA 4791+         STH   R2,CHNADR         SAVE UNIT FROM SIO          @D34SDAP 52908034
003A60 BF27 0049            00049 4792+         ICM   R2,M7,CAW+D1      ENSURE DEQU. OF ENTRY       @D34SDAP 52988034
003A64 4122 0008            00008 4793+         LA    R2,D8(R2)         FROM PUB                    @D34SDAP 53028034
003A68 BE27 0041            00041 4794+         STCM  R2,M7,CCWDRS      WHEN ERP RETURNS VIA IGNORE @D34SDAP 53068034
003A6C 1B22                       4795+         SR    R2,R2             CLEAR REG                   @D34SDAP 53108034
003A6E 4320 0048            00048 4796+         IC    R2,CAW            GET PROTECTION KEY FROM CAW @D34SDAP 53188034
003A72 4220 0040            00040 4797+         STC   R2,CSW            STORE PROTECTION KEY IN CSW @D34SDAP 53228034
003A76 4320 4007            00007 4798+         IC    R2,TKREQID        GET TASK ID                 @D34SDAP 53268034
003A7A 4A20 06CC            006CC 4799+         AH    R2,YPIB2TAB       POINT TO PIB2               @D34SDAP 53308034
                                  4800+         DROP  RA                DROP PIB BASE               @D34SDAP 53388034
                            00000 4801+         USING PIBADR,R2         DECLARE NEW BASE            @D34SDAP 53428034
003A7E BF23 2000            00000 4802+         ICM   R2,M3,PIBCOMRA    POINT TO COMREG(16 BIT ADDR)@D34SDAP 53468034
                                  4803+         DROP  R2                DROP PIB BASE               @D34SDAP 53508034
                            00000 4804+         USING PIBADR,RA         RESTORE ADDRESSING          @D34SDAP 53588034
                            00000 4805+         USING COMREG,R2                                     @D34SDAP 53628034
003A82 9108 2037      00037       4806+         TM    SOB2,DUMDVC       GEN ASSGN DUMMY DEVICE SRCH @D34SDAP 53668034
003A86 4780 D044      03A9A       4807+         BZ    INTERRC2          BR IF NO                    @DY11919 53688034
003A8A 910F 4004      00004       4808+         TM    REQID,X0F         WORKING FOR A SYSTEM TASK   @DY15699 53718034
003A8E 4770 D044      03A9A       4809+         BNZ   INTERRC2          YES, DON'T TURN OFF         @DY15699 53748034
003A92 94F7 2037      00037       4810+         NI    SOB2,X'FF'-DUMDVC TURN IT OFF                 @D34SDAP 53788034
003A96 47F0 9A9A      03974       4811+         B     INTEDEQ1          EXIT                        @D34SDAP 53828034
                                  4812+         DROP  R2                STOP COMREG ADDRESSABILITY  @D34SDAP 53868034


                                 4814+*************************************************************@D34SDAP 53988034
                                 4815+*                                                             @D34SDAP 54028034
                                 4816+*        ABNORMAL CHANNEL STATUS PROCESSOR                    @D34SDAP 54068034
                                 4817+*                                                             @D34SDAP 54108034
                                 4818+*************************************************************@D34SDAP 54188034


                            03A9A 4820+INTERRC2 EQU   *                                             @DY11919 54248034
                            00000 4821+         USING ERRQUE,R2         MAKE ERROR ENTRY ADDRESSABLE@D34SDAP 54308034
003A9A 1211                       4822+         LTR   R1,R1             IS CCB AVAILABLE            @DY13297 54388034
003A9C 4780 D052      03AA8       4823+         BZ    INTTRNS2          NO                          @DY13297 54408034
003AA0 9501 4004      00004       4824+         CLI   REQID,SNS         IS THIS A SENSE TASK REQUEST @D34SDAP 54428034
003AA4 4780 D380      03DD6       4825+         BE    INTPSNS           YES, POST SNSTASK           @D34SDAP 54448034
003AA8 4570 9AF2            039CC 4826+INTTRNS2 BAL   R7,INTOBRWD       GET FREE ERROR QUEUE ENTRY  @DY11919 54638034
003AAC 1222                       4827+         LTR   R2,R2             WAS A FREE ENTRY FOUND      @D34SDAP 54708034
003AAE 4780 0A24      00A24       4828+         BZ    ERR31             NO, ERROR QUEUE OVERFLOW    @D34SDAP 54788034
003AB2 4570 D2DE            03D34 4829+         BAL   R7,INTEQSET       FILL THE ALLOCATED ERQ-ENTRY@D34SDAP 54828034
003AB6 9560 0870      00870       4830+         CLI   DEVZON,DASD       IS DEVICE DASD?             @D34SDAP 54868034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003ABA 4770 D078      03ACE        4831+         BNE   INTECC10           NO                              @D34SDAP 54908034
003ABE 9561 3004      00004        4832+         CLI   PUBDEVTY,T2321     IS THIS THE DATA CELL           @D34SDAP 54988034
003AC2 4780 D078      03ACE        4833+         BE    INTECC10           YES, DO TRANSIENT RECOVERY      @D34SDAP 55028034
003AC6 4570 9AB0            0398A  4834+         BAL   R7,INTGATUP        GATE THIS CHANNEL               @D34SDAP 55068034
003ACA 9620 2010      00010        4835+         OI    ERRQSFLG,DSKCNTDN  INDICATE COUNT TO BE REDUCED @DY20398 55108034
003ACE 9130 0045      00045        4836+INTECC10 TM    CHNSTA,PRGPRT      PROGRAM, PROTECTION NOT OPER.@D34SDAP 55188034
003AD2 4770 9A74      0394E        4837+         BNZ   INTEEXIT          YES                             @D34SDAP 55228034
003AD6 47F0 9AA6      03980        4838+         B     INTEINI1                                           @D34SDAP 55268034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  4840+*************************************************************@D34SDAP 55348034
                                  4841+*                                                            @D34SDAP 55388034
                                  4842+*        UNIT CHECK PROCESSOR                                @D34SDAP 55428034
                                  4843+*                                                            @D34SDAP 55468034
                                  4844+*************************************************************@D34SDAP 55508034


                          03ADA   4846+INTUC2   EQU   *                ENTRY POINT FOR UNIT CHECK   @DY11919 55568034
003ADA 1211                       4847+         LTR   R1,R1            IS A CCB AVAILABLE           @D34SDAP 55628034
003ADC 4780 D09A      03AF0       4848+         BZ    INTEUC10         NO                           @D34SDAP 55668034
003AE0 9501 4004      00004       4849+         CLI   REQID,SNS        IS IT A SENSE TASK REQUEST   @D34SDAP 55808034
003AE4 4780 D380      03DD6       4850+         BE    INTPSNS          YES POST SNSTASK             @D34SDAP 55888034
003AE8 9140 1006      00006       4851+         TM    CCBCLS,BTAM      IS THIS A BTAM REQUEST       @D34SDAP 55968034
003AEC 4710 D20A      03C60       4852+         BO    INTTPERR         GO TO TP ERROR PROCESSING    @D34SDAP 56008034
                          03AF0   4853+INTEUC10 EQU   *                                            @D34SDAP 56128034
003AF0 9140 B8A8      018A8       4854+         TM    CRTFLG2,CRTSENS  WAS THIS A DUMMY INTERRUPT   @D34SDAP 56208034
003AF4 4710 D1EE      03C44       4855+         BO    INTECRT          YES, PREPARE DUMMY SENSE     @D34SDAP 56288034
003AF8 4570 9AF2            039CC 4856+         BAL   R7,INTOBRWD      FIND FREE ERROR QUEUE ENTRY  @D34SDAP 56368034
003AFC 1222                       4857+         LTR   R2,R2            WAS ERROR ENTRY ALLOCATED    @D34SDAP 56408034
003AFE 4780 D224      03C7A       4858+         BZ    INTERR31         NO, NO ENTRY FREE            @D34SDAP 56488034
003B02 4570 D2DE            03D34 4859+         BAL   R7,INTEQSET      SET UP ERROR QUEUE ENTRY     @D34SDAP 56528034
003B06 9180 3006      00006       4860+         TM    PUBCSFLG,DEVBSY  IS DEVICE BUSY              @D34SDAP 56558034
003B0A 4710 D0C2      03B18       4861+         BO    INTEUC20         YES                          @D34SDAP 56608034
003B0E 1211                       4862+         LTR   R1,R1            CCB AVAILABLE                @D34SDAP 56688034
003B10 4770 D0C2      03B18       4863+         BNZ   INTEUC20         YES                          @D34SDAP 56728034
003B14 9680 2010      00010       4864+         OI    ERRQSFLG,CLRUCIND  INDICATE CLEAR UC ONLY     @DY20398 56968034
003B18 9602 200A      0000A       4865+INTEUC20 OI    ERRQFLG,NEEDSNS    INDICATE SENSE OUTSTANDING @D34SDAP 57008034
003B1C D201 2014 0016 00014 00016 4866+         MVC   ERRQSNS(L2),CRADDR+D2 SAVE COMREG POINTER     @D34SDAP 57088034
003B22 D201 2016 0752 00016 00752 4867+         MVC   ERRQSNS+D2(L2),TIK SAVE THE TIK               @D34SDAP 57128034
003B28 D201 2018 067E 00018 0067E 4868+         MVC   ERRQSNS+D4(L2),PIK SAVE THE PIK               @D34SDAP 57164034
003B2E 4570 9AB0            0398A 4869+         BAL   R7,INTGATUP      GATE THIS CHANNEL            @D34SDAP 57208034
003B32 9501 073D      0073D       4870+         CLI   SELECT,SNS       IS SENSE TASK ACTIVE         @D34SDAP 57268034
003B36 4780 97B6      03690       4871+         BE    INITRG           YES, EXIT TO SCHEDULER       @DY13703 57328034
003B3A 4740 D0F4      03B4A       4872+         BL    INTEUC30         NO, NO SYSTEM TASK ACTIVE    @D34SDAP 57368034
003B3E 5870 0794            00794 4873+         L     R7,ASYSBLKX      GET PERTINENT SAVE AREA      @D34SDAP 57408034
                            00000 4874+         USING SYSBLKS,R7       ADDRESS SYSTEM TASK BLOCK    @D34SDAP 57488034
003B42 4870 7000            00000 4875+         LH    R7,SYSPIBFL      ADDRESS OF PIB FLAG          @D34SDAP 57528034
                            00000 4876+         USING SPIBADR,R7       ESTABLISH ADDRESSABILITY     @D34SDAP 57568034
003B46 9283 7000      00000       4877+         MVI   SPIBFLG,READY    READY THIS SYSTEM TASK       @D34SDAP 57608034
003B4A 9201 073D      0073D       4878+INTEUC30 MVI   SELECT,SNS       MAKE SENSE TASK SELECTABLE   @D34SDAP 57688034
003B4E 4170 B718            01718 4879+         LA    R7,SNSBLOCK      ADDRESS OF SNS TASK BLOCK    @D34SDAP 57728034
003B52 5070 0794            00794 4880+         ST    R7,ASYSBLKX      UPDATE SYS.TASK BLK.POINTER  @D34SDAP 57768034
                                  4881+         DROP  R7                                           @D34SDAP 57808034
003B56 4570 D392            03DE8 4882+INTEUC40 BAL   R7,SNSTASK        BRANCH TO ISSUE SENSE CMD    @D34SDAP 57888034
003B5A 4570 0B20            00B20 4883+         BAL   R7,CQDSP         RESTORE ASSOCIATED POINTERS  @D34SDAP 57968034
003B5E 4570 9AB8            03992 4884+         BAL   R7,INTGATDN      REDUCE CHANNNEL ERROR COUNT  @D34SDAP 58008034
003B62 91C0 2010      00010       4885+         TM    ERRQSFLG,PUBWASEQ+CLRUCIND SENSE DATA NEEDED @DY20398 58088034
003B66 4770 9AA2      0397C       4886+         BNZ   INTEINIT          NO, INITIATE ANOTHER I/O     @DY13836 58128034
003B6A D201 0016 2014 00016 00014 4887+         MVC   CRADDR+D2(L2),ERRQSNS RESTORE COMREG POINTER  @D34SDAP 58168034
003B70 D201 0752 2016 00752 00016 4888+         MVC   TIK(L2),ERRQSNS+D2 RESTORE THE TIK            @D34SDAP 58208034
003B76 D201 067E 2018 0067E 00018 4889+         MVC   PIK(L2),ERRQSNS+D4 RESTORE THE PIK            @D34SDAP 58248034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003B7C 5870 D572            03FC8  4890+         L     R7,SNSCCW           SENSE AREA ADDRESS           @DY13623 58377034
003B80 D217 2014 7000 00014 00000  4891+         MVC   ERRQSNS,D0(R7)      SENSE IN ERROR QUEUE ENTRY   @DY13623 58380034
003B86 9520 200B      0000B        4892+         CLI   ERRQMSG,RCVMSG      ERROR ON RECOVERY            @D34SDAP 58608034
003B8A 4780 9A74      0394E        4893+         BE    INTEEXIT            YES                          @D34SDAP 58688034
003B8E 1211                        4894+         LTR   R1,R1               IS THERE A CCB               @D34SDAP 58728034
003B90 4780 D14E      03BA4        4895+         BZ    INTEDASD            NO, BRANCH                   @D34SDAP 58768034
                                   4896+*                                  @DY15773 DID REMOVE CODE FOR @DY14609 58773034
                            03B94  4897+INTGSNS  EQU   *                                               @D34SDAP 59008034
003B94 9120 100C      0000C        4898+         TM    CCBBY3,USENSE       IS IT A USER SENSE           @D34SDAP 59088034
003B98 4710 D1B6      03C0C        4899+         BO    INTGUSER            YES                          @D34SDAP 59128034
003B9C 9101 1002      00002        4900+         TM    CCBCOM1,OWNUCRT     HAS USER OWN UC-ROUTINE      @D34SDAP 59168034
003BA0 4710 9A8A      03964        4901+         BO    INTNOERR            YES, THEN IGNORE ERROR       @D34SDAP 59208034
                            03BA4  4902+INTSNSNO EQU   *                                               @D34SDAP 59288034
003BA4 9560 0870      00870        4903+INTEDASD CLI   DEVZON,DASD         IS DEVICE DASD?              @D34SDAP 60528034
003BA8 4770 D180      03BD6        4904+         BNE   INTEPRT            NO                           @D34SDAP 60568034
003BAC 9561 3004      00004        4905+         CLI   PUBDEVTY,T2321       IS THIS THE DATA CELL        @D34SDAP 60608034
003BB0 4780 9A74      0394E        4906+         BE    INTEEXIT            YES, DO TRANSIENT RECOVERY   @D34SDAP 60688034
003BB4 9560 3004      00004        4907+         CLI   PUBDEVTY,T2311      IS THIS A DASD 23XX DEVICE   @DY20398 60694034
003BB8 4780 D16E      03BC4        4908+         BE    SNSINDHA            NO, PROCEED NORMAL           @DY20398 60697034
003BBC 9562 3004      00004        4909+         CLI   PUBDEVTY,T2314      IS IT A 2311,2314 OR 2319    @DY20398 60700034
003BC0 4770 D176      03BCC        4910+         BNE   SNSNORHA            NO, PROCEED NORMAL           @DY20398 60703034
003BC4 9680 9A53      0392D        4911+SNSINDHA OI    INTDSKF,WORKHA      WORK TO DO FOR SGDSK         @DY20398 60706034
                                   4912+*                                  THAT IS READ HA AND R0 ASAP  @DY20398 60709034
003BC8 9640 200C      0000C        4913+         OI    ERRQDFLG,ERRQSNHA   FOR THIS ERROR QUEUE ENTRY  @DY20398 60712034
                            03BCC  4914+SNSNORHA EQU   *                                               @DY20398 60715034
003BCC 4570 9AB0            0398A  4915+         BAL   R7,INTGATUP         GATE THIS CHANNEL            @D34SDAP 60728034
003BD0 9620 2010      00010        4916+         OI    ERRQSFLG,DSKCNTDN   INDICATE COUNT TO BE REDUCED @DY20398 60758034
003BD4 07F6                        4917+         BR    R6                  GO TO DISPATCHER             @D34SDAP 60788034
003BD6 9540 0870      00870        4918+INTEPRT  CLI   DEVZON,PRINTER      IS DEVICE A PRINTER          @D34SDAP 60818034
003BDA 4770 9A74      0394E        4919+         BNE   INTEEXIT            NO,GO TO INTEEXIT            @D34SDAP 60848034
003BDE 9101 2014      00014        4920+         TM    ERRQSNS,CHANN9      CHANNEL 9 OVERFLOW?          @D34SDAP 60958034
003BE2 4780 9A74      0394E        4921+         BZ    INTEEXIT            NO,                          @D34SDAP 61006034
003BE6 1211                        4922+         LTR   R1,R1               IS THERE A CCB               @D34SDAP 61054034
003BE8 4780 D19A      03BF0        4923+         BZ    INTEPRT1            NO, CAN IT BE IGNORED        @D34SDAP 61150034
003BEC 9602 1003      00003        4924+         OI    CCBCOM2,CHAN9       INDICATE CHANNEL 9 OVERFLOW  @D34SDAP 61158034
003BF0 9501 2014      00014        4925+INTEPRT1 CLI   ERRQSNS,CHANN9      IS THAT THE ONLY 'ERROR'     @D34SDAP 61208034
003BF4 4780 9A8A      03964        4926+         BE    INTNOERR            YES, THEN TAKE IGNORE EXIT   @D34SDAP 61288034
003BF8 9541 3004      00004        4927+         CLI   PUBDEVTY,T1443      IS THIS A 1443 PRINTER       @DY11295 61296034
003BFC 4770 9A74      0394E        4928+         BNE   INTEEXIT            NO, GO PROCESS OTHER ERROR   @DY11295 61304034
003C00 91F2 2014      00014        4929+         TM    ERRQSNS,X'F2'       IS THIS REALLY AN ERROR      @DY11295 61312034
003C04 4780 9A8A      03964        4930+         BZ    INTNOERR            NO, JUST TYPE-BAR-SEL + CHN9 @DY11295 61320034
003C08 47F0 9A74      0394E        4931+         B     INTEEXIT            GO TO PROCESS OTHER ERROR    @D34SDAP 61328034



003C0C 4180 1010            00010  4933+INTGUSER LA    R8,CCBSENS          USERS SENSE CCW ADDRESS      @D34SDAP 61408034
                            00000  4934+         USING CCWADR,R8                                      @D34SDAP 61458034
003C10 9110 8004      00004        4935+         TM    CCWCHAIN,SKIP       IS SENSE DATA NEEDED         @D34SDAP 61528034
003C14 4710 9A8A      03964        4936+         BO    INTNOERR            NO,  SKIP ERROR PROCESSING   @D34SDAP 61568034
003C18 1700                        4937+         XR    R0,R0               CLEAR DISPLACEMENT POINTER   @D34SDAP 61608034
003C1A 4570 B398            01398  4938+         BAL   R7,GETDADR          GET REAL DATA ADDRESS        @D34SDAP 61688034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003C1E 12EF                      4939+         LTR   RE,RF              TRANSLATION SUCCESSFULL      @D34SDAP 61728034
003C20 4780 D250      03CA6      4940+         BZ    INTPROT            NO, ERROR                    @D34SDAP 61768034
003C24 4800 8006            00006 4941+         LH    R0,CCWLNG          GET BYTE COUNT FROM CCW      @D34SDAP 61808034
003C28 0600                      4942+         BCTR  R0,ZERO            MINUS ONE                    @D34SDAP 61858034
003C2A 4570 B398            01398 4943+         BAL   R7,GETDADR         LAST BYTE OF I/O AREA        @D34SDAP 61928034
003C2E 12FF                      4944+         LTR   RF,RF              TRANSLATION SUCCESSFULL      @D34SDAP 61968034
003C30 4780 D250      03CA6      4945+         BZ    INTPROT            NO, ERROR                    @D34SDAP 62008034
003C34 1880                      4946+         LR    R8,R0              COPY CCW LENGTH COUNT        @D34SDAP 62088034
003C36 4480 D1E8            03C3E 4947+         EX    R8,INTSMOVE        MOVE THE SENSE BYTES         @D34SDAP 62128034
003C3A 47F0 9A8A      03964      4948+         B     INTNOERR           DO NOT PROCESS ERROR         @D34SDAP 62168034
                                 4949+         DROP  R8,RF                                           @D34SDAP 62208034
003C3E D200 E000 2014 00000 00014 4950+INTSMOVE MVC   ZERO(ONE,RE),ERRQSNS MOVE SENSE TO USER        @D34SDAP 62288034


                            03C44 4952+INTECRT  EQU   *                                             @D34SDAP 62408034
003C44 94BF B8A8      018A8      4953+         NI    CRTFLG2,XFF-CRTSENS RESET SENSE INDICATOR     @D34SDAP 62488034
003C48 4570 9B30            03A0A 4954+         BAL   R7,INTOBR          ALLOCATE AN ERROR ENTRY      @D34SDAP 62528034
003C4C 1222                      4955+         LTR   R2,R2              HAS ENTRY BEEN ALLOCATED     @D34SDAP 62568034
003C4E 4780 0A24      00A24      4956+         BZ    ERR31              NO, NO ERROR ENTRY FREE      @D34SDAP 62608034
003C52 4570 D2DE            03D34 4957+         BAL   R7,INTEQSET         FILL THE ALLOCATED ENTRY     @D34SDAP 62648034
003C56 D200 2014 B8A0 00014 018A0 4958+         MVC   ERRQSNS(L1),SENSEBT SET UP PREPARED SENSE       @D34SDAP 62688034
003C5C 47F0 D13E      03B94      4959+         B     INTGSNS            CONTINUE NORMAL              @D34SDAP 62728034


                            03C60 4961+INTTPERR EQU   *                TP-DEVICE ERROR PROCESSING   @D34SDAP 62888034
003C60 9110 3006      00006      4962+         TM    PUBCSFLG,QEDERR    IS AN ERROR ALREADY QUEUED   @D34SDAP 62928034
003C64 4710 D09A      03AF0      4963+         BO    INTEUC10           YES                          @DY15858 62968034
003C68 4570 9B30            03A0A 4964+         BAL   R7,INTOBR          ALLOCATE AN ERROR ENTRY      @D34SDAP 63008034
003C6C 1222                      4965+         LTR   R2,R2              HAS ENTRY BEEN ALLOCATED     @D34SDAP 63048034
003C6E 4780 0A24      00A24      4966+         BZ    ERR31              NO, NO ERROR ENTRY FREE      @D34SDAP 63088034
003C72 4570 D2DE            03D34 4967+         BAL   R7,INTEQSET         FILL THE ALLOCATED ENTRY     @D34SDAP 63128034
003C76 47F0 9AA6      03980      4968+         B     INTEINI1                                        @D34SDAP 63168034


                                 4970+*************************************************************@D34SDAP 65788034
                                 4971+*                                                           @D34SDAP 65828034
                                 4972+*       ERROR EXITS                                         @D34SDAP 65868034
                                 4973+*                                                           @D34SDAP 65908034
                                 4974+*************************************************************@D34SDAP 65988034


003C7A 1873                      4976+INTERR31 LR    R7,R3              COPY PUB POINTER             @D34SDAP 66068034
003C7C 4970 0690            00690 4977+         CH    R7,YPUBTAB         IS IT HEAD QUEUE REQUEST     @D34SDAP 66108034
003C80 47B0 D232      03C88      4978+         BNL   INTERR10           NO                           @D34SDAP 66188034
003C84 4870 3008            00008 4979+         LH    R7,PUBPTR          POINT TO ORIGINAL PUB        @D34SDAP 66228034
003C88 9120 7006      00006      4980+INTERR10 TM    D6(R7),UCPEND      UNIT CHECK PENDING ALREADY   @DY14212 66268034
003C8C 4710 D242      03C98      4981+         BO    INTERR15           YES, DON'T GATE TWICE        @DY14212 66288034
003C90 9620 7006      00006      4982+         OI    D6(R7),UCPEND      INDICATE UNIT CHECK PENDING  @DY14212 66308034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003C94 4570 9AB0            0398A  4983+         BAL   R7,INTGATUP        GATE THIS CHANNEL            @DY13836 66328034
003C98 9680 9A52      0392C        4984+INTERR15 OI    INTSNSF,SNSWORK    INDICATE WORK TO DO          @DY14212 66348034
003C9C 1211                        4985+         LTR   R1,R1              IS THERE A CCB ?  IF NO, ..  @DY15220 66376034
003C9E 4780 9AA6      03980        4986+         BZ    INTEINI1           ..RESUME INTERRUPT PROCESSING@DY15220 66380034
003CA2 47F0 0A24      00A24        4987+         B     ERR31                                           @D34SDAP 66388034
003CA6 4570 D258            03CAE  4988+INTPROT  BAL   R7,INTEQFRI        FREE ERROR QUEUE ENTRY       @D34SDAP 66428034
003CAA 47F0 09F2      009F2        4989+         B     ERR25              PROTECTION CHECK             @D34SDAP 66468034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  4991+*************************************************************@D34SDAP 70458034
                                  4992+*                                                           @D34SDAP 70498034
                                  4993+*                                                           @D34SDAP 70538034
                                  4994+*   FUNCTION      THIS ROUTINE IS USED TO FREE AN ALREADY    @D34SDAP 70658034
                                  4995+*                 ALLOCATED ERROR QUEUE ENTRY.              @D34SDAP 70708034
                                  4996+*                 REGISTER 2 MUST POINT TO THE ERROR ENTRY  @D34SDAP 70788034
                                  4997+*                 THAT IS TO BE OVERLAYED. ALL ERROR ENTRIES@D34SDAP 70828034
                                  4998+*                 FOLLOWING THIS ONE, WILL BE MOVED ONE ENTRY@D34SDAP 70868034
                                  4999+*                 POSITION UP. THIS ROUTINE DIFFERENCIATES  @D34SDAP 70908034
                                  5000+*                 BETWEEN 'NORMAL' AND 'DISK' ERROR ENTRIES.@D34SDAP 70988034
                                  5001+*                 IN ADDITION THIS ROUTINE WILL DEACTIVATE THE@D34SDAP 71028034
                                  5002+*                 ERP OR/AND THE DSK SYSTEM TASK IF NO MORE  @D34SDAP 71068034
                                  5003+*                 ENTRY IS ACTIVE IN THE PERTINENT ERROR QUEUE@D34SDAP 71108034
                                  5004+*                                                           @D34SDAP 71188034
                                  5005+*   CALLING SEQUENCE                                        @D34SDAP 71228034
                                  5006+*                                                           @D34SDAP 71268034
                                  5007+*                 BAL   R7,INTEQFRI                         @D34SDAP 71308034
                                  5008+*                                                           @D34SDAP 71388034
                                  5009+*   REGISTER USAGE                                          @D34SDAP 71428034
                                  5010+*                                                           @D34SDAP 71468034
                                  5011+*                 REGISTER  0     USED INTERNALLY           @D34SDAP 71508034
                                  5012+*                 REGISTER  1     USED INTERNALLY           @D34SDAP 71588034
                                  5013+*                 REGISTER  2     POINTER TO ERROR ENTRY    @D34SDAP 71628034
                                  5014+*                 REGISTER  3     USED INTERNALLY           @D34SDAP 71668034
                                  5015+*                 REGISTER  5     POINTER TO ERROR BLOCK    @D34SDAP 71708034
                                  5016+*                 REGISTER  7     USERS LINK REGISTER       @D34SDAP 71788034
                                  5017+*                 REGISTER  8     USED INTERNALLY           @D34SDAP 71828034
                                  5018+*                 REGISTER  9     BASE REGISTER             @D34SDAP 71868034
                                  5019+*                 REGISTER 11     SUPERVISOR BASE REGISTER  @D34SDAP 71908034
                                  5020+*                 REGISTER 14     USED INTERNALLY           @D34SDAP 71988034
                                  5021+*                                                           @D34SDAP 72028034
                                  5022+*   ENTERED FROM                                            @D34SDAP 72068034
                                  5023+*                                                           @D34SDAP 72108034
                                  5024+*                 INTERRCC        ABNORMAL CHANNEL STATUS PROC.@D34SDAP 72188034
                                  5025+*                 INTERRUC        UNIT CHECK PROCESSOR      @D34SDAP 72228034
                                  5026+*                                                           @D34SDAP 72268034
                                  5027+*************************************************************@D34SDAP 72308034

                           03CAE  5029+INTEQFRI EQU   *                                            @D34SDAP 72388034
003CAE 9120 2010       00010      5030+         TM    ERRQSFLG,DSKCNTDN  IS COUNT TO BE REDUCED    @DY20398 72428034
003CB2 4780 D268       03CBE      5031+         BZ    INTEQF05           NO                        @D34SDAP 72468034
003CB6 18E7                       5032+         LR    RE,R7              SAVE RETURN REGISTER      @D34SDAP 72558034
003CB8 4570 9AB8           03992  5033+         BAL   R7,INTGATDN        DECREMENT ERROR COUNT     @D34SDAP 72638034
003CBC 187E                       5034+         LR    R7,RE              RESTORE RETURN REGISTER   @D34SDAP 72678034
003CBE 5850 06F8           006F8  5035+INTEQF05 L     R5,AERBLOC         ADDRESS OF ERROR BLOCK    @D34SDAP 72718034
                           10260  5036+         USING ERBLOC,R5          MAKE ERROR BLOCK ADDRESSABLE@D34SDAP 72758034
003CC2 1881                       5037+         LR    R8,R1              SAVE CCB POINTER          @D34SDAP 72838034
003CC4 18E3                       5038+         LR    RE,R3              SAVE PUB POINTER          @D34SDAP 72878034
003CC6 9140 2010       00010      5039+         TM    ERRQSFLG,PUBWASEQ  WAS ANOTHER ERROR QUEUED  @DY20398 72918034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003CCA 4710 D27C      03CD2        5040+          BO    INTEQF10           YES                              @D34SDAP 72958034
003CCE 946F 3006      00006        5041+          NI    PUBCSFLG,XFF-QEDERR-DEVBSY RESET PUB BITS         @D34SDAP 72998034
003CD2 4110 519C            103FC  5042+INTEQF10  LA    R1,ERQ             LAST NORMAL ENTRY ADDRESS      @D34SDAP 73078034
003CD6 1912                        5043+          CR    R1,R2              IS THIS A DISK ENTRY           @D34SDAP 73118034
003CD8 47B0 D290      03CE6        5044+          BNL   INTEQF20           NO, ITS A NORMAL ONE           @D34SDAP 73158034
003CDC 4110 5278            104D8  5045+          LA    R1,ERQDLST         LAST DISK ENTRY ADDRESS        @D34SDAP 73238034
003CE0 1912                        5046+          CR    R1,R2              RESERVED DISK ERP ENTRY        @DY15773 73248034
003CE2 4740 D2AA      03D00        5047+          BL    INTEQF30           YES, NO MOVE                   @DY15773 73258034
003CE6 1B12                        5048+INTEQF20  SR    R1,R2              MOVE LENGTH                    @D34SDAP 73278034
003CE8 1831                        5049+          LR    R3,R1              COPY LENGTH FOR MVCL INSTR.    @D34SDAP 73318034
003CEA 4102 002C            0002C  5050+          LA    R0,ERQLNG(R2)      ADDRESS OF 'FROM' LOCATION     @D34SDAP 73358034
003CEE 0E20                        5051+          MVCL  R2,R0              MOVE ERROR ENTRIES ONE UP      @D34SDAP 73438034
003CF0 1802                        5052+          LR    R0,R2              SAVE ERR. ENTRY POINTER        @D34SDAP 73478034
003CF2 4120 519C            103FC  5053+          LA    R2,ERQ             POINT TO LAST NORMAL ENTRY     @D34SDAP 73518034
003CF6 1920                        5054+          CR    R2,R0              WAS THIS A DISK ERROR ENTRY    @D34SDAP 73558034
003CF8 47B0 D2AA      03D00        5055+          BNL   INTEQF30           IT WAS A NORMAL ENTRY          @D34SDAP 73638034
003CFC 4120 5278            104D8  5056+          LA    R2,ERQDLST         LAST DISK ENTRY                @D34SDAP 73678034
003D00 9200 200A      0000A        5057+INTEQF30  MVI   ERRQFLG,ZERO       SET LAST ENTRY AVAILABLE       @D34SDAP 73698034
003D04 1818                        5058+          LR    R1,R8              RESTORE CCB POINTER            @D34SDAP 73758034
003D06 183E                        5059+          LR    R3,RE              RESTORE PUB POINTER            @D34SDAP 73838034
003D08 9101 501A      1027A        5060+          TM    ERQFLG1,OCCUP      MUST ERP REMAIN ACTIVE         @D34SDAP 73878034
003D0C 4710 D2D2      03D28        5061+          BO    INTEQF40           YES, DO NOT DEACTIVATE         @D34SDAP 73918034
003D10 95E9 5007      10267        5062+          CLI   FTCHNM,CZ          IS $$ABERRZ ACTIVE             @D34SDAP 73958034
003D14 4780 D2D2      03D28        5063+          BE    INTEQF40           YES, DO NOT DEACTIVATE         @D34SDAP 74038034
003D18 95E9 5006      10266        5064+          CLI   FTCHNM-1,CZ         IS $$ABERZ1 OR ...Z2 ACTIVE    @D34SDAP 74078034
003D1C 4780 D2D2      03D28        5065+          BE    INTEQF40           YES, DO NOT DEACTIVATE         @D34SDAP 74118034
003D20 9287 B5D9      015D9        5066+          MVI   ERPFLG,BOUND       PREVENT ACTIVATION OF ERP      @D34SDAP 74158034
003D24 947F 0739      00739        5067+          NI    SYSFLAG2,XFF-INITERP RESET INITIAL SELECTION      @D34SDAP 74238034
003D28 9101 51D2      10432        5068+INTEQF40  TM    ERQD1FLG,OCCUP     MUST DSK-TASK REMAIN ACTIVE    @D34SDAP 74278034
003D2C 0717                        5069+          BOR   R7                 YES                            @D34SDAP 74318034
003D2E 9287 B5D0      015D0        5070+          MVI   DSKFLG,BOUND       DEACTIVATE DSK SYSTEM TASK     @D34SDAP 74358034
003D32 07F7                        5071+          BR    R7                 RETURN TO MAIN LINE            @D34SDAP 74398034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  5073+*************************************************************@D34SDAP 74478034
                                  5074+*                                                            @D34SDAP 74518034
                                  5075+*                                                            @D34SDAP 74558034
                                  5076+*   FUNCTION      THIS ROUTINE IS MAINLY USED TO SET UP ERROR  @D34SDAP 74598034
                                  5077+*                 QUEUE ENTRY, WHICH WILL BE FURTHER PROCESSED @D34SDAP 74638034
                                  5078+*                 BY THE ERROR RECOVERY PROCEDURES.            @D34SDAP 74678034
                                  5079+*                 IF A CCB IS AVAILABLE (NOT DEQUEUED) IT WILL @D34SDAP 74718034
                                  5080+*                 BE MODIFIED DUE TO USERS SPECIFICATIONS. IN  @D34SDAP 74758034
                                  5081+*                 ADDITION, PROVISIONS WILL BE MADE TO ALLOW   @D34SDAP 74908034
                                  5082+*                 THE FAILING I/O OPERATION TO BE RETRIED AT A @D34SDAP 74958034
                                  5083+*                 LATER POINT IN TIME.                         @D34SDAP 75038034
                                  5084+*                 THE FLAG BYTE IN THE PUB ENTRY OF THE FAILING@D34SDAP 75078034
                                  5085+*                 DEVICE WILL BE MODIFIED TO PREVENT ANY I/O   @D34SDAP 75118034
                                  5086+*                 OPERATION FOR THE TIME THE ERP IS RUNNING    @D34SDAP 75158034
                                  5087+*                                                              @D34SDAP 75238034
                                  5088+*   CALLING SEQUENCE                                           @D34SDAP 75278034
                                  5089+*                                                              @D34SDAP 75318034
                                  5090+*                 BAL   R7,INTEQSET                            @D34SDAP 75348034
                                  5091+*                                                              @D34SDAP 75408034
                                  5092+*   REGISTER USAGE                                             @D34SDAP 75468034
                                  5093+*                                                              @D34SDAP 75528034
                                  5094+*                 REGISTER  1     POINTER TO CCB               @D34SDAP 75558034
                                  5095+*                 REGISTER  2     ADDRESS OF ERROR ENTRY       @D34SDAP 75588034
                                  5096+*                 REGISTER  3     POINTER TO PUB               @D34SDAP 75618034
                                  5097+*                 REGISTER  7     USERS LINK REGISTER          @D34SDAP 75708034
                                  5098+*                 REGISTER  8     USED INTERNALLY              @D34SDAP 75788034
                                  5099+*                 REGISTER  9     BASE REGISTER                @D34SDAP 75828034
                                  5100+*                 REGISTER 10     POINTER TO PIB               @D34SDAP 75868034
                                  5101+*                 REGISTER 11     SUPERVISOR BASE REGISTER     @D34SDAP 75908034
                                  5102+*                 REGISTER 14     USED INTERNALLY              @D34SDAP 75988034
                                  5103+*                                                              @D34SDAP 76028034
                                  5104+*   ENTERED FROM                                               @D34SDAP 76068034
                                  5105+*                                                              @D34SDAP 76108034
                                  5106+*                 INTERRUC        UNIT CHECK PROCESSOR         @D34SDAP 76188034
                                  5107+*                 INTERRCC        ABNORMAL CHANNEL STATUS PROC.@D34SDAP 76228034
                                  5108+*                                                              @D34SDAP 76268034
                                  5109+*************************************************************@D34SDAP 76308034

                           03D34  5111+INTEQSET EQU   *                                               @D34SDAP 76428034
003D34 4111 0000           00000  5112+         LA    R1,D0(R1)          CLEAR HIGH ORDER BYTE       @DZ13650 76468034
003D38 D207 2000 0040 00000 00040  5113+         MVC   ERRQCSW,CSW        SAVE CSW                    @DY14125 76751034
003D3E 5010 2010           00010  5114+         ST    R1,ERRQCCB         SAVE CCB POINTER            @D34SDAP 76758034
003D42 9110 3006      00006        5115+         TM    PUBCSFLG,QEDERR    IS ANOTHER ERROR QUEUED     @D34SDAP 76838034
003D46 4780 D304      03D5A        5116+         BZ    INTEQS10           NO                          @D34SDAP 76878034
003D4A 9640 2010      00010        5117+         OI    ERRQSFLG,PUBWASEQ  INDICATE ERROR ALREADY QUEUED@DY20398 76918034
003D4E 4930 0690           00690   5118+         CH    R3,YPUBTAB         HEADQUEUE PUB               @DY16017 76958034
003D52 47B0 D304      03D5A        5119+         BNL   INTEQS10           NO                          @DY16017 76968034
003D56 4830 3008           00008   5120+         LH    R3,PUBPTR          POINT TO ORIGINAL PUB       @DY16017 76978034
003D5A 4030 2008           00008   5121+INTEQS10 STH   R3,ERRQPUB         SAVE PUB POINTER            @DY16017 76988034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003D5E 9610 3006      00006        5122+          OI    PUBCSFLG,QEDERR    PREVENT FURTHER I/O          @DY16017 76998034
003D62 9211 200A      0000A        5123+          MVI   ERRQFLG,IGNERR+OCCUP INDICATE NO RETRY POSSIBLE @D34SDAP 77050034
003D66 1211                        5124+          LTR   R1,R1              IS CCB AVAILABLE             @D34SDAP 77053034
003D68 4780 D37E      03DD4        5125+          BZ    INTEQSXT           NO                           @D34SDAP 77118034
003D6C 188A                        5126+          LR    R8,RA              COPY PIB POINTER             @D34SDAP 77158034
003D6E 4B80 06AA            006AA  5127+          SH    R8,YPIBTAB         RETRIEVE PROTECTION KEY      @D34SDAP 77238034
003D72 4280 2000            00000  5128+          STC   R8,ERRQCSW         SAVE IT IN ERRQCSW           @D34SDAP 77278034
003D76 BF87 0041            00041  5129+          ICM   R8,M7,CSW+1        GET FAILING CCW ADDRESS+8    @D34SDAP 77318034
003D7A 4780 D34C      03DA2        5130+          BZ    INTEQS15           ERROR OCCURED PAST CE        @DM11632 77338034
003D7E 9205 200A      0000A        5131+          MVI   ERRQFLG,RTYERR+OCCUP INDICATE RETRY IS POSSIBLE @D34SDAP 77438034
003D82 9560 0870      00870        5132+          CLI   DEVZON,DASD        DASD DEVICE ?       @DY14881 @DY15773 77448034
003D86 4780 D366      03DBC        5133+          BE    INTEQS20           YES, BRANCH         @DY14177 @DY15773 77458034
003D8A 9101 1003      00003        5134+          TM    CCBCOM2,CHNBIT     FAILING CCW RETRY WANTED     @D34SDAP 77478034
003D8E 4780 D34C      03DA2        5135+          BZ    INTEQS15           NO, DONT UPDATE USERS CCB    @DM11632 77498034
003D92 4B80 08F2            008F2  5136+          SH    R8,H8              POINT BACK TO FAILING CCW    @D34SDAP 77558034
003D96 BD87 0715            00715  5137+          CLM   R8,M7,ACCWNDSP+D1  WAS FAILING CCW FROM SUPVR   @DY15773 77638034
003D9A 4740 D34C      03DA2        5138+          BL    INTEQS15           YES, DONT UPDATE USERS CCB   @DY15773 77668034
003D9E BE87 1009            00009  5139+          STCM  R8,M7,CCBCCW+1     UPDATE CCW ADDRESS IN CCB    @D34SDAP 77888034
                            03DA2  5140+INTEQS15 EQU   *                                               @DM11632 77918034
003DA2 9120 1006      00006        5141+          TM    CCBCLS,CCBCOPY     IS THIS A COPIED CCB         @D34SDAP 78018034
003DA6 4780 D366      03DBC        5142+          BZ    INTEQS20           NO                           @D34SDAP 78078034
003DAA 9108 101A      0001A        5143+          TM    CCBFLAG,FASTTR     FAST TRANSLATE               @D34SDAP 78118034
003DAE 47E0 D366      03DBC        5144+          BNO   INTEQS20           NO                           @D34SDAP 78158034
003DB2 5880 103C            0003C  5145+          L     R8,CCBRCB          POINT TO REPLICA             @D34SDAP 78238034
003DB6 D703 8000 8000 00000 00000  5146+          XC    D0(L4,R8),D0(R8)   INVALIDATE CCB POINTER       @D34SDAP 78278034
                            03DBC  5147+INTEQS20 EQU   *                                               @D34SDAP 78358034
003DBC 9130 0045      00045        5148+          TM    CHNSTA,PRGPRT      PROGRAM, PROTECTION NOT OPER @D34SDAP 78438034
003DC0 0777                        5149+          BNZR  R7                 YES, DONT POST DISASTER      @D34SDAP 78478034
003DC2 9120 100C      0000C        5150+          TM    CCBBY3,USENSE      DOES USER WANT SENSE         @D34SDAP 78518034
003DC6 4710 D37A      03DD0        5151+          BO    INTEQS30           YES, POST DISASTER ERROR     @D34SDAP 78558034
003DCA 9101 1002      00002        5152+          TM    CCBCOM1,OWNUCRT    DOES USER HANDLE ERROR       @D34SDAP 78638034
003DCE 0787                        5153+          BZR   R7                 NO, RETURN TO MAIN LINE      @D34SDAP 78678034
003DD0 9620 1002      00002        5154+INTEQS30 OI    CCBCOM1,DISERR     POST DISASTER ERROR IN CCB   @D34SDAP 78718034
003DD4 07F7                        5155+INTEQSXT BR    R7                 RETURN TO MAIN LINE          @D34SDAP 78758034
                                   5156+*                                                              @D34SDAP 78838034
                                   5157+*         POST THE SENSE SYSTEM TASK AND RETURN TO DISPATCHER  @D34SDAP 78878034
                                   5158+*                                                              @D34SDAP 78918034


                            03DD6  5160+INTPSNS  EQU   *                                               @D34SDAP 79038034
003DD6 96A0 1002      00002        5161+          OI    CCBCOM1,TRABIT+DISERR INDICATE I/O COMPLETE  @D34SDAP 79078034
003DDA D601 1004 0044 00004 00044  5162+          OC    CCBSTA(L2),DEVSTA  SAVE STATUS INFORMATION   @D34SDAP 79118034
003DE0 58D0 0884            00884  5163+          L     RD,IOSBASE         SET UP IOS BASE REGISTER  @DY11919 79138034
003DE4 47F0 93DE      032B8        5164+          B     PURGE1             DEQUEUE ENTRY AND EXIT       @D34SDAP 79158034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 5166+*****************************************************************@D34SDAP 79278034
                                 5167+*                                                               @D34SDAP 79318034
                                 5168+*                                                               @D34SDAP 79358034
                                 5169+*   FUNCTION      THIS ROUTINE IS EXCLUSIVLY USED TO ISSUE A    @D34SDAP 79438034
                                 5170+*                 SENSE COMMAND TO ANY DEVICE KNOWN TO THE      @D34SDAP 79478034
                                 5171+*                 DOS/VS SUPERVISOR.                            @D34SDAP 79518034
                                 5172+*                 THE ROUTINE ITSELF HAS BEEN SET UP AS A       @D34SDAP 79558034
                                 5173+*                 SYSTEM TASK AND IT IS ASSUMED THAT THIS       @D34SDAP 79638034
                                 5174+*                 'SNSTASK' HAS THE HIGHEST PRIORITY OF ALL     @D34SDAP 79678034
                                 5175+*                 EXISTING SYSTEM TASKS. THIS SYSTEM TASK       @D34SDAP 79718034
                                 5176+*                 WILL BE ACTIVATED WHENEVER AN UNIT CHECK      @D34SDAP 79758034
                                 5177+*                 IS ENCOUNTERED FOR A DEVICE FOR WHICH A       @D34SDAP 79838034
                                 5178+*                 PUB-ENTRY DOES EXIST. IN CASE THE SENSE       @D34SDAP 79878034
                                 5179+*                 COMMAND IS TERMINATED ABNORMALLY, IT WILL     @D34SDAP 79918034
                                 5180+*                 BE RETRIED THREE TIMES. THE ERROR IF THAN     @D34SDAP 79958034
                                 5181+*                 STILL EXISTING WILL CAUSE THE PUB TO BE       @D34SDAP 80038034
                                 5182+*                 FLAGGED IN ERROR AND THE PROGRAM TO BE        @D34SDAP 80078034
                                 5183+*                 CANCELED.                                     @D34SDAP 80118034
                                 5184+*                                                               @D34SDAP 80158034
                                 5185+*   ENTRY POINTS                                                @D34SDAP 80198034
                                 5186+*                                                               @D34SDAP 80238034
                                 5187+*                 SNSTASK         ENTRY POINT FROM  INTERRUC    @D34SDAP 80278034
                                 5188+*                 SNSMORE         ENTRY POINT FROM  DISPATCHER  @D34SDAP 80318034
                                 5189+*                                                               @D34SDAP 80358034
                                 5190+*   REGISTER INPUT                                              @D34SDAP 80398034
                                 5191+*                                                               @D34SDAP 80438034
                                 5192+*                 REGISTER  2     ADDRESS OF ERROR ENTRY        @D34SDAP 80478034
                                 5193+*                 REGISTER  7     USERS LINK REGISTER           @D34SDAP 80518034
                                 5194+*                 REGISTER 11     SUPERVISOR BASE REGISTER      @D34SDAP 80558034
                                 5195+*                 REGISTER 13     BASE REGISTER                 @D34SDAP 80598034
                                 5196+*                                                               @D34SDAP 80638034
                                 5197+*   REGISTER OUTPUT                                             @D34SDAP 80678034
                                 5198+*                                                               @D34SDAP 80718034
                                 5199+*                 REGISTER  0     UNPREDICTABLE                 @D34SDAP 80758034
                                 5200+*                 REGISTER  8     SNSTASK SAVE AREA ADDRESS     @D34SDAP 80958034
                                 5201+*                 REGISTER 14     UNPREDICTABLE                 @DM11632 80968034
                                 5202+*                 REGISTER 15     UNPREDICTABLE                 @DM11632 80978034
                                 5203+*                                                               @D34SDAP 81008034
                                 5204+*****************************************************************@D34SDAP 81058034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003DE8 4830 2008            00008  5206+SNSTASK  LH    R3,ERRQPUB          ADDRESS OF FAILING PUB       @DY11919 81158034
003DEC 4930 0690            00690  5207+         CH    R3,YPUBTAB          IS IT A HEAD QUEUE PUB       @D34SDAP 81458034
003DF0 47B0 D3A2      03DF8        5208+         BNL   SNSNOHQ             NO                           @D34SDAP 81508034
003DF4 4830 3008            00008  5209+         LH    R3,PUBPTR           POINT TO ORIGINAL PUB        @D34SDAP 81558034
003DF8 4B30 0690            00690  5210+SNSNOHQ  SH    R3,YPUBTAB          OFFSET OF PUB WITHIN TABLE   @D34SDAP 82108034
003DFC 4110 D55C            03FB2  5211+         LA    R1,SNSCCB           SET UP CCB POINTER           @DM11632 82168034
003E00 BF18 D3AA            03E00  5212+SNSUNCON ICM   R1,M8,SNSUNCON      MAKE IT UNCONDITIONAL        @DM11632 82178034
003E04 4100 0003            00003  5213+         LA    R0,THREE            SET UP THE RETRY COUNT       @DM11632 82188034
003E08 8830 0003            00003  5214+         SRL   R3,THREE            PUB ENTRY NUMBER             @D34SDAP 82208034
003E0C 4230 1007            00007  5215+         STC   R3,CCBLNO           STORE PUB NO. IN CCB         @D34SDAP 82258034
003E10 9608 1006      00006        5216+         OI    CCBCLS,CCBPHYAD     INDICATE PHYSICAL ADDRESSING @D34SDAP 82308034
003E14 5830 D572            03FC8  5217+         L     R3,SNSCCW           SENSE AREA ADDRESS           @DY13623 82370034
003E18 D717 3000 3000 00000 00000  5218+         XC    D0(L'SNSAREA,R3),D0(R3) CLEAR SENSE AREA         @DY13623 82374034
003E1E 0A0F                        5219+SNSSENSE SVC 15                      ISSUE SENSE COMMAND          @D34SDAP 82408034
003E20 AD03 B65C      0165C        5220+         STOSM PSWMASK,ENABLE      ENABLE INTERRUPTS            @DZ14820 82444034
003E24 B205 D5C2      04018        5221+SNSAGAIN STCK  SNSSTRTT            START TIME                   @DZ14820 82454034
003E28 9180 1002      00002        5222+SNSWAIT  TM    CCBCOM1,TRABIT      IS REQUEST COMPLETE          @D34SDAP 82508034
003E2C 4710 D484      03EDA        5223+         BO    SNSDONE             YES                          @DY13765 82508934
003E30 4830 D5D2            04028  5224+         LH    R3,YHQSNS           SENSE HEADQUEUE PUB          @DY13765 82509334
003E34 9180 3006      00006        5225+         TM    PUBCSFLG,DEVBSY     REQUEST ALREADY STARTED      @DY13765 82509734
003E38 4710 D3EC      03E42        5226+         BO    SNSWAIT2            YES                          @DZ14820 82511334
003E3C 0A32                        5227+         SVC   50                  FORCE CHANNEL SCHEDULER      @DZ14820 82511434
003E3E 47F0 D3CE      03E24        5228+         B     SNSAGAIN            WAIT FOR IT                  @DY13765 82511834
003E42 B205 D5C6      0401C        5229+SNSWAIT2 STCK  SNSCURRT            CURRENT TIME                 @DY13765 82512534
003E46 4730 D3D2            03E28  5230+         BC    3,SNSWAIT           TOD INVALID, FORGET IT       @DY13623 82513434
003E4A 9845 D5C2            04018  5231+         LM    R4,R5,SNSSTRTT      CALCULATE ..                 @DY13623 82514334
003E4E 1B54                        5232+         SR    R5,R4               .. TIME DIFFERENCE           @DY13623 82515234
003E50 5550 D5CE            04024  5233+         CL    R5,SNSWAITT         HAS WAIT TIME BEEN ELAPSED   @DY13623 82516134
003E54 47D0 D3D2      03E28        5234+         BNH   SNSWAIT             NO, WAIT                     @DY13623 82517034
003E58 ACFC B65C      0165C        5235+         STNSM PSWMASK,DISABLE     DISABLE INTERRUPTS           @DY13623 82517934
003E5C 9180 1002      00002        5236+         TM    CCBCOM1,TRABIT      WAS I/O JUST COMPLETED       @DY13623 82518834
003E60 4710 D488      03EDE        5237+         BO    SNSDONE2            YES                          @DY13623 82519734
003E64 4840 D5D2            04028  5238+         LH    R4,YHQSNS           SNS HEADQUEUE PUB            @DY13623 82520634
                            00000  5239+         USING HQADR,R4            ADDRESSABILITY               @DY13623 82521534
003E68 4830 2008            00008  5240+         LH    R3,ERRQPUB          PUB ADDRESS                  @DY13623 82522434
003E6C 4930 0690            00690  5241+         CH    R3,YPUBTAB          WAS THIS HEADQUEUE REQUEST   @DY13623 82523334
003E70 47B0 D422      03E78        5242+         BNL   SNSNOHQ2            NO, NORMAL                   @DY13623 82524234
003E74 4830 3008            00008  5243+         LH    R3,PUBPTR           TAKE ORIGINAL PUB            @DY13623 82525134
003E78 4930 4008            00008  5244+SNSNOHQ2 CH    R3,HQPUBPTR         POINTER RIGHT                @DY13623 82526034
003E7C 4770 D478      03ECE        5245+         BNE   SNSRCVER            NO, ERROR ON RECOVERY        @DY13623 82526934
003E80 9103 4007      00007        5246+         TM    HQJCFLG,HQIPR       REQUEST ALREADY STARTED      @DY13623 82527834
                            00000  5247+         USING CHQADR,R4           STANDARD ADDRESSABILITY      @DY13623 82528734
003E84 4770 D3CE      03E24        5248+         BNZ   SNSAGAIN            NO, WAIT AGAIN               @DY13623 82529634
003E88 92FF 1005      00005        5249+         MVI   CCBSTA2,XFF         INDICATE NO RESPONSE         @DY13623 82530534
003E8C 1834                        5250+         LR    R3,R4               COPY PUB POINTER             @DY13623 82531434
003E8E 4840 3000            00000  5251+         LH    R4,PUBCHANN         CHANNEL AND UNIT ADDRESS     @DY13623 82532334
003E92 4040 00BA            000BA  5252+SNSPRIO  STH   R4,CHNADR           IN I/O INTERRUPTION CODE     @DY13623 82536834
003E96 4570 0B20            00B20  5253+         BAL   R7,CQDSP            SET UP SNS HQ I/O REGISTERS  @DY13623 82537734
003E9A 1211                        5254+         LTR   R1,R1               REQUEST STILL QUEUED         @DY13623 82538634
003E9C 4780 D478      03ECE        5255+         BZ    SNSRCVER            NO, STRANGE                  @DY13623 82539534
003EA0 5880 B71C            0171C  5256+         L     R8,SNSBLOCK+D4      ADDRESS OF SNS SAVE AREA     @DY13623 82540434
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            00000  5257+         USING SVEARA,R8           MAKE IT ADDRESSABLE          @DY13623 82541334
003EA4 94FC 8008      00008        5258+         NI    SVEPSW,DISABLE      FORCE DISABLED PSW           @DY13623 82542234
003EA8 4170 D488            03EDE  5259+         LA    R7,SNSDONE2         CONTINUATION ADDRESS         @DY13623 82543134
003EAC BE77 800D            0000D  5260+         STCM  R7,M7,SVEPSW2+1     STORE IN SAVE AREA PSW       @DY13623 82544034
003EB0 5870 D572            03FC8  5261+         L     R7,SNSCCW           CURRENT SENSE INPUT AREA     @DY13623 82544934
003EB4 4180 D5AA            04000  5262+         LA    R8,SNSALAST         ADDRESS OF LAST USABLE AREA  @DY13623 82545834
003EB8 4177 0018            00018  5263+         LA    R7,L'SNSAREA(R7)    NEXT SENSE AREA              @DY13623 82546734
003EBC 1978                        5264+         CR    R7,R8               STILL SENSE AREA             @DY13623 82547634
003EBE 47D0 D470      03EC6        5265+         BNH   SNSANEW             YES, STILL NEW ADDRESS       @DY13623 82548534
003EC2 4170 D57A            03FD0  5266+         LA    R7,SNSAREA          FIRST SENSE AREA             @DY13623 82549434
003EC6 BE77 D573            03FC9  5267+SNSANEW  STCM  R7,M7,SNSCCW+D1     STORE IN CCW                 @DY13623 82550334
003ECA 47F0 9352      0322C        5268+         B     TRNOFF              GO DEQUEUE                   @DY13623 82551234
003ECE 4110 D55C            03FB2  5269+SNSRCVER LA    R1,SNSCCB           SET UP CCB POINTER           @DY20398 82552134
003ED2 92FF 1005      00005        5270+         MVI   CCBSTA2,XFF         INDICATE ERROR               @DY20398 82552434
003ED6 47F0 D488      03EDE        5271+         B     SNSDONE2            CONSIDER WORK DONE           @DY13623 82553034
                            03EDA  5272+SNSDONE  EQU   *                                              @DZ14820 82608034
003EDA ACFC B65C      0165C        5273+         STNSM PSWMASK,DISABLE     DISABLE INTERRUPTS           @DZ14820 82648034
003EDE 5880 B71C            0171C  5274+SNSDONE2 L     R8,SNSBLOCK+D4      ADDRESS OF SNS SAVE AREA     @DY13623 82688034
                            00000  5275+         USING SVEARA,R8           MAKE IT ADDRESSABLE          @D34SDAP 82698034
003EE2 94FC 8008      00008        5276+         NI    SVEPSW,XFF-ENABLE   FORCE DISABLED PSW           @D34SDAP 82738034
003EE6 4130 D4DC            03F32  5277+         LA    R3,SNSMORE          LOAD CONTINUATION ADDRESS    @DZ14820 82748034
003EEA BE37 800D            0000D  5278+         STCM  R3,M7,SVEPSW2+1     AND STORE IN SAVE AREA       @D34SDAP 82858034
003EEE 95FF 1005      00005        5279+         CLI   CCBSTA2,XFF         ALREADY DETECTED ERROR       @DY13623 82878034
003EF2 4780 D4B8      03F0E        5280+         BE    SNSERR2             YES                          @DY13623 82883034
003EF6 913F 1005      00005        5281+         TM    CCBSTA2,CHANER+CHNCHK ANY CHANNEL ERROR            @D34SDAP 82908034
003EFA 4770 D4B0      03F06        5282+         BNZ   SNSERR              YES, ERROR ON RECOVERY       @D34SDAP 82958034
003EFE 9102 1004      00004        5283+         TM    CCBSTA1,UNITCK      UNIT CHECK                   @D34SDAP 83008034
003F02 4780 D4BC      03F12        5284+         BZ    SNSLOAD             YES, ERROR ON RECOVERY       @D34SDAP 83058034
003F06 9220 200B      0000B        5285+SNSERR   MVI   ERRQMSG,RCVMSG      SET MESSAGE CODE             @DY20398 83108034
003F0A 4600 D3C8            03E1E  5286+         BCT   R0,SNSSENSE         RETRY SENSE OPERATION        @DY20398 83158034
003F0E 9220 200B      0000B        5287+SNSERR2  MVI   ERRQMSG,RCVMSG      SET MESSAGE CODE             @DY13623 83508034
003F12 94FD 200A      0000A        5288+SNSLOAD  NI    ERRQFLG,XFF-NEEDSNS RESET SENSE OUTSTANDING      @D34SDAP 83558034
003F16 9200 1008      00008        5289+         MVI   CCBCCW,ZERO         RESET SPECIAL PROCESSING BIT @DM11632 83578034
003F1A 4830 2008            00008  5290+         LH    R3,ERRQPUB          RELOAD PUB POINTER           @D34SDAP 83758034
003F1E 9680 3006      00006        5291+         OI    PUBCSFLG,DEVBSY     SET BUSY TO DETERMINE 'READY'@DM11632 83778034
003F22 D207 0040 2000 00040 00000  5292+         MVC   CSW(L8),ERRQCSW     RESTORE ORIGINAL CSW         @D34SDAP 83808034
003F28 48F0 3000            00000  5293+         LH    RF,PUBCHANN         SET CHANNEL/UNIT ADDRESS     @DY13441 83818034
003F2C 40F0 00BA            000BA  5294+         STH   RF,CHNADR           IN I/O INTERRUPTION CODE     @DY13441 83828034
003F30 07F7                        5295+         BR    R7                                             @DY13441 83878034
                            03F32  5296+SNSMORE  EQU   *                                              @D34SDAP 83958034
003F32 4170 0010            00010  5297+         LA    R7,10+NODSKEQE+1     NUMBER OF ERROR ENTRIES   @DY15773 84008034
003F36 5850 06F8            006F8  5298+         L     R5,AERBLOC          ADDRESS OF ERROR BLOCK       @DY13623 84028034
003F3A 4120 5010            10270  5299+         LA    R2,ERQ1             POINT TO FIRST ENTRY         @D34SDAP 84058034
003F3E 9102 200A      0000A        5300+SNSLOOP  TM    ERRQFLG,NEEDSNS     IS SENSE OUTSTANDING         @D34SDAP 84108034
003F42 4710 D100      03B56        5301+         BO    INTEUC40            YES                          @D34SDAP 84158034
003F46 4122 002C            0002C  5302+         LA    R2,ERQLNG(R2)       NO, POINT TO NEXT ENTRY      @D34SDAP 84208034
003F4A 4670 D4E8            03F3E  5303+         BCT   R7,SNSLOOP          LOOP TIL ALL ENTRIES CHECKED @D34SDAP 84258034
003F4E 9180 9A52      0392C        5304+         TM    INTSNSF,SNSWORK     IS A PUBSCAN REQUIRED        @D34SDAP 84308034
003F52 4710 D50A      03F60        5305+         BO    SNSPSCAN            YES                          @D34SDAP 84358034
                            03F56  5306+SNSDEACT EQU   *                   DEACTIVATION OF SENSE TASK   @D34SDAP 84408034
003F56 9287 B5CF      015CF        5307+         MVI   SNSFLG,BOUND        DEACTIVATE SENSE PIBFLAG     @D34SDAP 84458034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

003F5A 9200 073D      0073D        5308+         MVI   SELECT,ZERO        CLEAR SELECT FIELD           @D34SDAP 84508034
003F5E 07F6                        5309+         BR    R6                 BRANCH TO DISPATCHER         @D34SDAP 84558034
003F60 4830 0690            00690  5310+SNSPSCAN LH    R3,YPUBTAB         POINT TO FIRST PUB           @D34SDAP 84608034
003F64 9120 3006      00006        5311+SNSCHNXT TM    PUBCSFLG,UCPEND    IS A UNIT CHECK PENDING      @D34SDAP 84658034
003F68 4710 D52A      03F80        5312+         BO    SNSUCPEN           YES                          @D34SDAP 84708034
003F6C 4130 3008            00008  5313+SNSNPUB  LA    R3,NEXTPUB                                      @D34SDAP 84758034
003F70 95FF 3000      00000        5314+         CLI   PUBADR,XFF         END OF PUB TABLE             @D34SDAP 84808034
003F74 4770 D50E      03F64        5315+         BNE   SNSCHNXT           NO                           @D34SDAP 84858034
003F78 943F 9A52      0392C        5316+         NI    INTSNSF,XFF-SNSWORK-SNSDVFRI RESET FLAG BYTE     @D34SDAP 84908034
003F7C 47F0 D4DC      03F32        5317+         B     SNSMORE            CHECK FOR OUTSTANDING SENSE  @D34SDAP 84958034
003F80 4570 9B30            03A0A  5318+SNSUCPEN BAL   R7,INTOBR          ALLOCATE FREE ERROR ENTRY    @D34SDAP 85008034
003F84 1222                        5319+         LTR   R2,R2              WAS A FREE ENTRY ALLOCATED   @D34SDAP 85058034
003F86 4780 D54C      03FA2        5320+         BZ    SNSNOFRI           NO, ERROR QUEUE STILL FULL   @D34SDAP 85108034
003F8A 9640 9A52      0392C        5321+         OI    INTSNSF,SNSDVFRI   SET DEVICE WAS FREED          @D34SDAP 85158034
003F8E 4030 2008            00008  5322+         STH   R3,ERRQPUB         SAVE PUB POINTER             @D34SDAP 85208034
003F92 94DF 3006      00006        5323+         NI    PUBCSFLG,XFF-UCPEND RESET UC PENDING INDICATOR   @D34SDAP 85258034
003F96 9602 200A      0000A        5324+         OI    ERRQFLG,NEEDSNS    INDICATE SENSE OUTSTANDING   @D34SDAP 85308034
003F9A 9280 2010      00010        5325+         MVI   ERRQSFLG,CLRUCIND  INDICATE CLEAR UNIT CHECK    @DY20398 85358034
003F9E 47F0 D516      03F6C        5326+         B     SNSNPUB            BRANCH TO CHECK NEXT PUB     @D34SDAP 85408034
003FA2 9140 9A52      0392C        5327+SNSNOFRI TM    INTSNSF,SNSDVFRI   WAS AT LEAST 1 DEVICE FREED  @D34SDAP 85458034
003FA6 4780 D500      03F56        5328+         BZ    SNSDEACT           NO, SO DEACTIVATE THIS TIME  @D34SDAP 85508034
003FAA 94BF 9A52      0392C        5329+         NI    INTSNSF,XFF-SNSDVFRI RESET DEVICE FREED          @D34SDAP 85558034
003FAE 47F0 D4DC      03F32        5330+         B     SNSMORE            CHECK FOR OUTSTANDING SENSE  @D34SDAP 85608034
                                   5331+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                 07100028
003FB2 0000                        5332+SNSCCB   DC    XL2'0' .           RESIDUAL COUNT                    49000028
003FB4 0000                        5333+         DC    XL2'0'      .        COMMUNICATIONS BYTES             50000028
003FB6 0000                        5334+         DC    XL2'0' .           CSW STATUS BYTES                  51000028
003FB8 00                          5335+         DC    AL1(0)      .          LOGICAL UNIT CLASS             52000028
003FB9 06                          5336+         DC    AL1(6)    .          LOGICAL UNIT                     53000028
003FBA 00                          5337+         DC    XL1'0'                                              54000028
003FBB 003FC8                      5338+         DC    AL3(SNSCCW) .      CCW ADDRESS                      55000028
003FBE 00                          5339+         DC    B'00000000'     .      STATUS BYTE                 56000028
003FBF 000000                      5340+         DC    AL3(0) .           CSW CCW ADDRESS                  57000028
003FC2 000000000000
003FC8 04003FD020000018            5341+SNSCCW   CCW   X'04',SNSAREA,X'20',L'ERRQSNS                      @D34SDAP 85708034
003FD0 0000000000000000            5342+SNSAREA  DC    XL24'00'                                           @D34SDAP 86008034
003FE8 0000000000000000            5343+         DC    XL24'00'                                           @DY13623 86020034
004000 0000000000000000            5344+SNSALAST DC    XL24'00'                                           @DY13623 86023034

004018 00000000                    5346+SNSSTRTT DC    F'0'               START TIME IN SECONDS           @DY13623 86029034
00401C 0000000000000000            5347+SNSCURRT DC    2F'0'              CURRENT TIME IN SECONDS         @DY13623 86032034
004024 0000000A                    5348+SNSWAITT DC    F'10'              10 SECONDS WAIT TIME            @DY13623 86035034

004028 1F00                        5350+YHQSNS   DC    Y(HQSNS)           ADDRESS OF SENSE HEADQ PUB      @DY13623 86046034

                                   5352+*                                                                @DY13765 86058034
                                   5353+* SVC 50 IS GIVEN BY LIOCS TO FORCE TASK CANCELLATION            @DY13765 86108034
                                   5354+* IT IS RESERVED FOR THAT PURPOSE                                @DY13765 86138034
                                   5355+* BUT SINCE IT IS ONLY GIVEN BY USER TASKS IT IS FREE FOR        @DY13765 86168034
                                   5356+* SENSE TASK REQUESTS                                           @DY13765 86198034
                                   5357+* USED BY SNS TASK TO FORCE THE CHANNEL SCHEDULER               @DY13765 86228034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00402A 9501 073D      0073D        5359+SVC50    CLI   SELECT,SNS          SENSE TASK REQUEST           @DY13765 86288034
00402E 4770 09EA      009EA        5360+         BNE   ERR21               NO, ILLEGAL SVC              @DY13765 86318034
004032 9180 1002      00002        5361+         TM    CCBCOM1,TRABIT      REQUEST COMPLETED            @DY13765 86348034
004036 0716                        5362+         BOR   R6                  YES, RETURN                  @DY13765 86378034
004038 5880 B71C            0171C  5363+         L     R8,SNSBLOCK+D4      ADDRESS SNS SAVE AREA        @DY13765 86508034
00403C 9898 8010            00010  5364+         LM    R9,R8,SVER09        RELOAD SNS TASK REGISTERS    @DY13765 86558034
004040 4840 3000            00000  5365+         LH    R4,PUBCHANN         CHANNEL AND UNITR ADDRESS    @DY13765 86608034
004044 4040 00BA            000BA  5366+         STH   R4,CHNADR           IN I/O INTERRUPTION CODE     @DY13765 86908034
004048 1884                        5367+         LR    R8,R4               GET CHANNEL NUMBER           @DY13765 86958034
00404A 8880 0008            00008  5368+         SRL   R8,D8               IN LOW ORDER BYTE            @DY13765 87008034
00404E 4388 08F6            008F6  5369+         IC    R8,CHNDIS(R8)       CALCULATE DISPLACEMENT       @DY13765 87058034
004052 5A80 0734            00734  5370+         A     R8,ACHNTAB          GET PTR TO CHNL TABLE        @DY13765 87108034
004056 47F0 9834      0370E        5371+         B     INITRG1             GO TO CHANNEL SCHEDULER      @DY13765 87158034
                                   5372+         DROP  RD                                               @D34SDAP 87208034


                                   5374+*  DISK ERP - SGDSK - 5745-SC-DKE - RELEASE 34.1                @DY20759 01220034
```

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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
                                 5377+*************************************************************** @DL28754 01360034
                                 5378+*                                                             * @DL28754 01390034
                                 5379+*           RESIDENT ERROR RECOVERY PROCEDURE                 * @DL28754 01490034
                                 5380+*                                                             * @DL28754 01510034
                                 5381+*FUNCTION                                                     * @DL28754 01570034
                                 5382+*   THE FUNCTION OF THE RESIDENT DASD ERPS IS TO ATTEMPT TO    * @DL28754 01650034
                                 5383+*   RECOVER FROM I/O ERRORS OCCURRING ON DIRECT ACCESS         * @DL28754 01660034
                                 5384+*   STORAGE DEVICES. IN MOST CASES IT WILL RETRY THE USERS     * @DL28754 01750034
                                 5385+*   CHANNEL PROGRAM A SPECIFIC NUMBER OF TIMES UNTIL THE       * @DL28754 01751034
                                 5386+*   ERROR IS EITHER CORRECTED OR THE RETRY COUNT IS EXHAUST-   * @DL28754 01850034
                                 5387+*   ED.  WHEN THE RETRY COUNT IS EXHAUSTED, IT WILL CONSIDER   * @DL28754 01870034
                                 5388+*   THE ERROR TO BE PERMANENT.                                 * @DL28754 01890034
                                 5389+*                                                             * @DL28754 01910034
                                 5390+*   IN THE EVENT OF AN END OF CYLINDER, OR TRACK OVERFLOW,     * @DL28754 02050034
                                 5391+*   THE USER'S CCB IS APPROPRIATELY POSTED AND THE ERROR IS    * @DL28754 02060034
                                 5392+*   IGNORED.  THE SAME IS TRUE FOR A NO RECORD FOUND UNLESS    * @DL28754 02150034
                                 5393+*   THE USER HAS REQUESTED A RETRY.  IN THIS CASE A RETRY OF   * @DL28754 02158034
                                 5394+*   TEN TIMES IS ATTEMPTED AND IF STILL NOT FOUND, THE ERP     * @DL28754 02250034
                                 5395+*   WILL EXIT TO THE MESSAGE WRITER.                           * @DL28754 02257034
                                 5396+*                                                             * @DL28754 02350034
                                 5397+*   IN THE EVENT OF A TRACK CONDITION CHECK, THE ERP WILL      * @DL28754 02360034
                                 5398+*   DETERMINE THE ADDRESS OF THE ALTERNATE TRACK AND SET UP    * @DL28754 02450034
                                 5399+*   TO SEEK TO THE ALTERNATE TRACK.  IF THE TRACK WAS AN       * @DL28754 02460034
                                 5400+*   ALTERNATE TRACK TO BEGIN WITH, THE ERP WILL DETERMINE      * @DL28754 02550034
                                 5401+*   THE ADDRESS OF THE ORIGINAL DEFECTIVE TRACK, INCREMENT     * @DL28754 02590034
                                 5402+*   THE HEAD ADDRESS BY ONE AND SEEK TO THAT LOCATION TO       * @DL28754 02630034
                                 5403+*   ALLOW THE USER CHANNEL PROGRAM TO CONTINUE.  IF AN END OF* @DL28754 02670034
                                 5404+*   CYLINDER WAS DETECTED DURING THIS OPERATION, THE USER'S    * @D34DDDK 02750034
                                 5405+*   CCB WILL BE PROPERLY POSTED.                               * @DL28754 02790034
                                 5406+*                                                             * @DL28754 02830034
                                 5407+*   IF A SEEK CHECK SHOULD OCCUR, THE ERP WILL ISSUE A RECAL-* @DL28754 02870034
                                 5408+*   IBRATE COMMAND TO THE DEVICE BEFORE RETRYING THE USER'S    * @DL28754 02950034
                                 5409+*   CHANNEL PROGRAM.                                           * @DL28754 02990034
                                 5410+*                                                             * @DL28754 03030034
                                 5411+*   THE 370 DASD ERPS CONTAIN TWO MAJOR EXCEPTIONS.  IF        * @DL29SOM 03150034
                                 5412+*   THERE IS TO BE LOGGING, THE RMSR LOGGING BIT IN THE PUB2   * @DL29SOM 03190034
                                 5413+*   WILL BE SET FOR CERTAIN TYPES OF ERRORS.  THIS WILL        * @DL29SOM 03230034
                                 5414+*   PROMPT THE RMSR TRANSIENTS TO LOG THE ERROR ON THE FIRST   * @DL29SOM 03270034
                                 5415+*   OCCURRANCE OF THE ERROR. EQUIPMENT CHECKS, BUSOUT CHECKS   * @DL29SOM 03350034
                                 5416+*   ENVIRONMENTAL DATA PRESENT, UNCORRECTABLE DATA CHECKS AND* @DL29SOM 03390034
                                 5417+*   OVERRUN WILL ALWAYS BE LOGGED FOR CURRENT 370 DEVICES.     * @DL29SOM 03430034
                                 5418+*                                                             * @DL29SOM 03470034
                                 5419+*   FOR A 3340 DEVICE, ALL DATA CHECKS, AND SOME CASES OF      * @DL29SOM 03590034
                                 5420+*   INTERVENTION REQUIRED ARE ALSO LOGGED.                     * @DL29SOM 03630034
                                 5421+*                                                             * @DL28754 03670034
                                 5422+*   THE SECOND ADDITION IS THE PRESENCE OF THE ERROR CORR-     * @DL28754 03790034
                                 5423+*   ECTION FUNCTION.  THE ERROR CORRECTION FUNCTION WORKS BY   * @DL28754 03830034
                                 5424+*   FIRST DETERMINING THE LOCATION OF THE ERROR IN THE RECORD* @DL28754 03870034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  5425+*   JUST READ.  THIS IS DONE BY TAKING THE NUMBER OF BYTES   * @DL28754 03950034
                                  5426+*   READ, WHICH IS SET IN THE SENSE, AND SUBTRACTING THE REAR* @DL28754 03990034
                                  5427+*   DISPLACEMENT, WHICH IS ALSO SET IN THE SENSE.  THE THREE * @DL28754 04030034
                                  5428+*   ECF BYTES ARE THEN EXCLUSIVE OR'ED WITH THAT LOCATION IN * @DL28754 04070034
                                  5429+*   THE DATA RECORD.  NOTE THAT THE ECF ROUTINE WILL LOOP    * @DL29SOM 04150034
                                  5430+*   THROUGH TO DO THIS ONE BYTE AT A TIME.  THIS IS TO TAKE  * @DL29SOM 04190034
                                  5431+*   INTO ACCOUNT ANY DATA CHAINED CCWS WHERE THE DATE AREAS  * @DL29SOM 04230034
                                  5432+*   MAY BE SCATTERED AND ALSO TO ACCOUNT FOR DATA AREAS      * @DL29SOM 04270034
                                  5433+*   THAT SPAN NON-CONTIGUOUS PAGES WHEN THE USER IS EXECUTING* @DL29SOM 04350034
                                  5434+*   IN VIRTUAL MODE.                                        * @DL29SOM 04370034
                                  5435+*                                                           * @DL28754 04430034
                                  5436+*   NECESSARY CALCULATIONS ARE MADE FOR DATA CHAINED CCWS    * @DL28754 04470034
                                  5437+*   AND IMBEDDED TICS.                                      * @DL28754 04550034
                                  5438+*                                                           * @DL29SOM 04590034
                                  5439+*ENTRY POINTS                                               * @DL28754 04670034
                                  5440+*        DISKERR                                            * @DL28754 04750034
                                  5441+*                                                           * @DL28754 04790034
                                  5442+*INPUT                                                      * @DL28754 04830034
                                  5443+*   R1  - CONTAINS POINTER TO USER'S CCB                     * @DL28754 04870034
                                  5444+*   R2  - CONTAINS POINTER TO ERRQUE                        * @D34SDDK 04950034
                                  5445+*   R3  - CONTAINS POINTER TO PUB FOR ERROR DEVICE          * @DL28754 04990034
                                  5446+*   R4  - CONTAINS POINTER TO CHQADR                        * @D34DDDK 05010034
                                  5447+*   R6  - GENERAL EXIT ADDRESS                              * @DL28754 05030034
                                  5448+*                                                           * @DL28754 05070034
                                  5449+*OUTPUT                                                     * @DL28754 05150034
                                  5450+*   R1  - UNCHANGED                                         * @DL28754 05190034
                                  5451+*   R2  - UNCHANGED                                         * @DL28754 05230034
                                  5452+*   R3  - UNCHANGED                                         * @DM01435 05270034
                                  5453+*   R4  - UNCHANGED                                         * @D34DDDK 05310034
                                  5454+*   R6  - UNCHANGED                                         * @DL28754 05350034
                                  5455+*   P2DFLG    - X'40' IF ERROR IS TO BE LOGGED              * @DL28754 05390034
                                  5456+*                                                           * @DL28754 05430034
                                  5457+*EXTERNAL REFERENCES                                        * @DL28754 05470034
                                  5458+*        GETDADR  - SUBROUTINE TO CONVERT REAL ADDRESSES TO * @DL28754 05550034
                                  5459+*                   VIRTUAL ADDRESSES IN CCWS               * @DL28754 05590034
                                  5460+*        RMSGETP2 - SUBROUTINE TO FIND PUB2 ADDRESS        * @DL28754 05630034
                                  5461+*        VIRTAD   - SUBROUTINE TO CONVERT REAL ADDRESSES TO * @DL28754 05670034
                                  5462+*                   VIRTUAL ADDRESSES                       * @DL28754 05710034
                                  5463+*                                                           * @DL28754 05750034
                                  5464+*EXITS NORMAL                                               * @DL28754 05790034
                                  5465+*        (ALL EXITS VIA DSKEXIT ROUTINE)                    * @D34DDDK 05830034
                                  5466+*        IGNORE   - POST ERROR TO USER AND IGNORE           * @DL28754 05870034
                                  5467+*        INITRG   - RETRY USERS CHANNEL PROGRAM             * @DL28754 05910034
                                  5468+*        INTRTN   - SIMULATE INTERRUPT FOR USER ROUTINE     * @D34DDDK 05950034
                                  5469+*        EXTRAN1  - CALL MESSAGE WRITER OR ANOTHER ERP      * @D34DDDK 06070034
                                  5470+*                   TRANSIENT                               * @DL28754 06110034
                                  5471+*                                                           * @DL28754 06150034
                                  5472+*EXIT ERROR                                                 * @DL28754 06190034
                                  5473+*        EXTRAN1  - PERMANENT ERROR EXIT                    * @D34DDDK 06230034
                                  5474+*        RCVERR1  - ERROR DURING RECOVERY DUE TO INVALID    * @D34DDDK 06280034
                                  5475+*                   ADDRESS PASSED TO ERP                   * @DL28754 06460034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  5476+*                                                                * @DL28754 06470034
                                  5477+*TABLES/WORK AREAS                                               * @DL28754 06480034
                                  5478+*   ERRQ      - LAST ERROR QUEUE ENTRY.  CONTAINS INFORMATION    * @DL28754 06490034
                                  5479+*               ABOUT THE NATURE OF THE ERROR                    * @DL28754 06500034
                                  5480+*   PUB       - CONTAINS INFORMATION ABOUT THE DEVICE           * @DL28754 06750034
                                  5481+*   CCB       - CONTAINS INFORMATION ABOUT THE USER REQUEST     * @DL28754 06790034
                                  5482+*ATTRIBUTES                                                      * @DL28754 06830034
                                  5483+*        REUSABLE, PRIVILEGED, DISABLED                          * @DL28754 06870034
                                  5484+*                                                                * @DL28754 06910034
                                  5485+*NOTES                                                           * @DL28754 06950034
                                  5486+*        LINES HAVE BEEN RENUMBERED IN RELEASE 34                * @D34DDDK 06990034
                                  5487+*                                                                * @D34DDDK 07030034
                                  5488+************************************************************** @DL28754 07070034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          0405A  5490+DISKERR  EQU   *                                                  @DL28754 07150034
                          0405A  5491+         USING *,RD              SET BASE FOR DISKERP             @D34SDDK 07190034
00405A 5850 06F8          006F8  5492+         L     R5,AERBLOC        POINT TO ERROR BLOCK             @DY15773 07205034
                          10260  5493+         USING ERBLOC,R5         ADDRESSABILITY                   @DY15773 07210034
00405E 4120 51C8          10428  5494+         LA    R2,ERQD1          POINT TO FIRST DISK ENTRY        @DY20398 07211434
004062 9180 9A53  0392D          5495+         TM    INTDSKF,WORKHA    HOME ADDRESSES TO READ           @DY20398 07212134
004066 4710 DA5A  04AB4          5496+         BO    DSKOT010          BRANCH IF SO                     @DY20398 07212834
00406A 9200 52AF  1050F          5497+         MVI   ERQDRMSG,ZERO     SET RESERVED ENTRY UNUSED        @DY15773 07215034
                                 5498+         DROP  R5                                                         07230034
                          00000  5499+         USING ERRQUE,R2         MAKE OWN ERROR Q ADDRESSABLE     @D34SDDK 07270034
                          00000  5500+         USING PIBADR,RA         MAKE PIP ADDRESSABLE             @D34SDDK 07310034
00406E 4830 2008          00008  5501+         LH    R3,ERRQPUB        SET POINTER TO PUB               @D34SDDK 07350034
004072 4570 0B20          00B20  5502+         BAL   R7,CQDSP          LOAD R1,R4,RA                    @D34SDDK 07370034
004076 9120 200B  0000B          5503+         TM    ERRQMSG,RCVMSG    IS SENSE IN ERROR                @D34SDDK 07371034
00407A 4710 D876  048D0          5504+         BO    EXTRAN1           YES, BRANCH                      @D34SDDK 07372034
00407E D203 DAAE 200C 04B08 0000C 5505+         MVC   DSKSEEK+D2(L4),ERRQSEK  SAVE SEEK ADR AFTER ERR  @D34DDDK 07380034
004084 4380 3003          00003  5506+         IC    R8,PUBERR         GET ERROR COUNT                          07390034
004088 4188 0001          00001  5507+         LA    R8,D1(R8)         INCREASE BY 1                            07430034
00408C 4280 3003          00003  5508+         STC   R8,PUBERR         STORE UPDATED ERROR COUNT                07470034
004090 1211                      5509+         LTR   R1,R1             IS CCB AVAILABLE                 @D34SDDK 07510034
004092 4780 D0A6  04100          5510+         BZ    DSKNCCB           NO                               @D34SDDK 07550034
                          00000  5511+         USING CHQADR,R4         MAKE CHANNELQ ADDRESSABLE        @DM16008 07552034
004096 D200 0753 4007 00753 00007 5512+         MVC   TIK+1(L1),TKREQID SAVE REQUESTOR PIK/TIK           @DM16422 07554034
00409C 0A21                      5513+         SVC   33                ASSURE CORRECT COMREG ADDR       @DY14471 07564034
00409E 5890 1008          00008  5514+         L     R9,CCBCCW         GET REAL ADDR OF CCW             @DY20398 07567034
0040A2 4560 B18C          0118C  5515+         BAL   R6,VIRTAD         FIND IT'S VIRT ADDR              @DY20398 07568034
0040A6 5890 070C          0070C  5516+         L     R9,AINTER         RESTORE BASE FOR IOINTER         @DY20398 07569034
0040AA 45E0 D854          048AE  5517+         BAL   RE,ADTST          GO CHECK VALIDITY OF ADDR        @DY20398 07570034
0040AE 1B00                      5518+         SR    R0,R0             INDICATE NO DISPLACEMENT         @DY20398 07575034
0040B0 4570 B398          01398  5519+         BAL   R7,GETDADR        GET DATA ADDRESS                 @DY20398 07576034
0040B4 45E0 D85A          048B4  5520+         BAL   RE,ADTST1         GO CHECK VALIDITY OF ADDR        @DY20398 07577034
0040B8 D201 DBAA F002 04C04 00002 5521+         MVC   DSKUSRSK,D2(RF)   SAVE SEEK ADDRESS                @DY20398 07578034
0040BE 9563 3004  00004          5522+         CLI   PUBDEVTY,T3330    FOR 2311 AND 2314                @DY15826 07740034
0040C2 4740 D0A6  04100          5523+         BL    DSKNCCB           THE ERRQSEK IS OK                @DY15826 07790034
0040C6 D200 DAAF 2019 04B09 00019 5524+         MVC   DSKSEEK+D3(L1),ERRQSNS+D5 MOVE LOW CYL SEEK @     @DY15826 07840034
0040CC D200 DAB1 201A 04B0B 0001A 5525+         MVC   DSKSEEK+D5(L1),ERRQSNS+D6 MOVE HEAD ADDRESS      @DY15826 07845034
0040D2 947F DAB1  04B0B          5526+         NI    DSKSEEK+D5,X'7F'        CLEAR BITS 0 AND 3       @DY20240 07850034
0040D6 4300 201A          0001A  5527+         IC    R0,ERRQSNS+D6     PREPARE FOR SHIFT                @DY15826 07855034
0040DA 8800 0005          00005  5528+         SRL   R0,5              SHIFT RIGHT 5                    @DY15826 07860034
0040DE 9563 3004  00004          5529+         CLI   PUBDEVTY,T3330    IS IT A 3330                     @DY15826 07870034
0040E2 4770 D090  040EA          5530+         BNE   DSKSSK            NO, SKIP EXTRA SHIFT             @DY15826 07875034
0040E6 8800 0001          00001  5531+         SRL   R0,1              YES, SHIFT RIGHT ANOTHER ONE     @DY15826 07880034
0040EA 4200 DAAE          04B08  5532+DSKSSK   STC   R0,DSKSEEK+D2     STORE HIGH CYL SEEK DATA         @DY15826 07890034
0040EE 9403 DAAE  04B08          5533+         NI    DSKSEEK+D2,X'03'        CLEAR BITS 0 - 5         @DY15826 07895034
0040F2 941F DAB1  04B0B          5534+         NI    DSKSEEK+D5,X'1F'        CLEAR BITS 0 - 3         @DY20240 07900034
0040F6 9200 DAB0  04B0A          5535+         MVI   DSKSEEK+D4,ZERO         CLEAR HIGH ORDER HEAD @  @DY15826 07905034
0040FA D203 200C DAAE 0000C 04B08 5536+         MVC   ERRQSEK(L4),DSKSEEK+D2  MOVE SEEKADDR TO ERRQ    @DY15826 07910034
004100 4170 D17C          041D6  5537+DSKNCCB  LA    R7,RETRY01        SET UP EXIT ADDRESS              @D34SDDK 08110034
004104 9108 2005  00005          5538+         TM    ERRQCSW+D5,CHDTA  IS IT CHANNEL DATA CHECK         @D34SDDK 08150034
004108 0777                      5539+         BCR   NZ,R7             YES, RETRY 1 TIME                        08190034
00410A 9568 3004  00004          5540+         CLI   PUBDEVTY,T3340    IS IT A 3340 (BOTH MODELS)       @DM11635 08240034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00410E 4780 D336      04390        5541+         BE    ERR3340             YES, BRANCH                    @DM11635 08250034
004112 9569 3004      00004        5542+         CLI   PUBDEVTY,T334036    IS IT A 3340 35MB              @D34DDDK 08270034
004116 4780 D336      04390        5543+         BE    ERR3340             YES, BRANCH                    @D34DDDK 08310034
00411A 956A 3004      00004        5544+         CLI   PUBDEVTY,T334070    IS IT A 3340 70MB              @D34DDDK 08350034
00411E 4780 D336      04390        5545+         BE    ERR3340             YES, BRANCH                    @D34DDDK 08390034
004122 9563 3004      00004        5546+         CLI   PUBDEVTY,T3330      IS IT 3330                             08470034
004126 4780 D33E      04398        5547+         BE    ERR3330             YES, BRANCH                            08510034
00412A 9565 3004      00004        5548+         CLI   PUBDEVTY,T3330B     IS IT A 3330-11                @D34DDDK 08550034
00412E 4780 D33E      04398        5549+         BE    ERR3330             YES, BRANCH                    @D34DDDK 08590034
004132 9567 3004      00004        5550+         CLI   PUBDEVTY,T3350      IS IT A 3350                   @D34DDDK 08670034
004136 4780 D33E      04398        5551+         BE    ERR3330             YES, BRANCH                    @D34DDDK 08710034



                                   5553+************************************************************           09340034
                                   5554+*                                                          *           09380034
                                   5555+*     2311/2314/2319 ERROR RECOVERY PROCEDURE              *           09420034
                                   5556+*                                                          *           09460034
                                   5557+************************************************************           09500034

00413A 9110 2014      00014        5559+         TM    ERRQSNS,EQUIPCHK    IS IT EQUIPMENT CHECK          @D34SDDK 09580034
00413E 0777                        5560+         BCR   NZ,R7               YES, RETRY 1 TIME                       09620034
004140 9108 2015      00015        5561+         TM    ERRQSNS+D1,NORCDFND NO RECORD FOUND CONDITION      @D34SDDK 09660034
004144 4710 D1FA      04254        5562+         BO    NORCD               YES, BRANCH                            09700034
004148 9101 2014      00014        5563+         TM    ERRQSNS,SEEKCHK     IS IT SEEK CHECK               @D34SDDK 09740034
00414C 4710 D15C      041B6        5564+         BO    SEKCHK              YES, BRANCH                            09780034
004150 9140 2014      00014        5565+         TM    ERRQSNS,INTVRQD     IS IT INTERVENTION REQUIRED    @D34SDDK 09820034
004154 4770 D876      048D0        5566+         BNZ   EXTRAN1             YES, DO NOT RETRY              @D34SDDK 09860034
004158 9108 2014      00014        5567+         TM    ERRQSNS,DATACHK     IS IT DATA CHECK               @D34SDDK 09900034
00415C 4710 D140      0419A        5568+         BO    DATACK              YES, BRANCH                            09940034
                                   5569+*                                                                       09980034
004160 4170 D184            041DE  5570+         LA    R7,RETRY10          SET UP EXIT ADDRESS                    10020034
004164 9124 2014      00014        5571+         TM    ERRQSNS,BUSTOVER    IS IT BUS OUT CHECK OR         @D34SDDK 10060034
                                   5572+*                                  OVERRUN                        @DL28754 10100034
004168 0777                        5573+         BCR   NZ,R7               YES, RETRY 10 TIMES                    10140034
00416A 9102 2015      00015        5574+         TM    ERRQSNS+D1,MISSMARK MISSING ADDRESS MARKER         @D34SDDK 10180034
00416E 0777                        5575+         BCR   NZ,R7               YES, RETRY 10 TIMES                    10440034
004170 9180 2014      00014        5576+         TM    ERRQSNS,COMREJ      IS IT COMMAND REJECT           @D34SDDK 10480034
004174 4770 D876      048D0        5577+         BNZ   EXTRAN1             YES, BRANCH TO EXTRAN                  10520034
004178 9102 2014      00014        5578+         TM    ERRQSNS,TRCNDCHK    IS IT TRACK CONDITION CHECK    @D34SDDK 10600034
00417C 4710 D264      042BE        5579+         BO    TRKCHK              YES, BRANCH                            10640034
004180 9160 2015      00015        5580+         TM    ERRQSNS+D1,TOVEREOC TRK OVERRUN / END OF CYL       @D34SDDK 10680034
004184 4770 D310      0436A        5581+         BNZ   TRKEOC              YES, BRANCH                            10720034
004188 9101 2005      00005        5582+         TM    ERRQCSW+D5,CHCHN    IS IT CHANNEL CHAIN CHECK      @D34SDDK 10760034
00418C 0777                        5583+         BCR   NZ,R7               YES, RETRY 10 TIMES                    10800034
00418E 9104 2015      00015        5584+         TM    ERRQSNS+D1,E3FP     IS IT FILE PROTECT             @D34SDDK 10840034
004192 4710 D224      0427E        5585+         BO    FILEPROT            YES, LOOK IF FORCED BY ERP     @DA08968 10880034
004196 47F0 D876      048D0        5586+         B     EXTRAN1             OTHER CONDITIONS - GO TO EXTRAN        10920034



                                   5588+************************************************************ @D34DDDK 11000034
                                   5589+*                                                          * @D34DDDK 11040034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  5590+*              2311/2314/2319 DATACHECK ROUTINE              * @D34DDDK 11080034
                                  5591+*                                                            * @D34DDDK 11120034
                                  5592+************************************************************** @D34DDDK 11160034

00419A 9501 3003      00003       5594+DATACK   CLI   PUBERR,ONE         IS THIS FIRST RETRY                  11380034
00419E 47D0 D16C      041C6       5595+         BNH   RECALIB            YES, BRANCH                          11450034
0041A2 95FF 3003      00003       5596+         CLI   PUBERR,XFF         ALREADY RETRIED 256 TIMES            11470034
0041A6 4780 D876      048D0       5597+         BE    EXTRAN1            YES, BRANCH TO EXTRAN                11480034
0041AA 910F 3003      00003       5598+         TM    PUBERR,X'0F'       IS THIS RETRY A MULIPLE OF 16        11490034
0041AE 4780 D16C      041C6       5599+         BZ    RECALIB            - YES, RECALIBRATE                   11500034
0041B2 47F0 D1AC      04206       5600+         B     RMSD00             - NO, RETRY                @DL28754  11510034


                                  5602+************************************************************** @D34DDDK 11540034
                                  5603+*                                                            * @D34DDDK 11550034
                                  5604+*              SEEKCHECK ROUTINE                             * @D34DDDK 12000034
                                  5605+*                                                            * @D34DDDK 12040034
                                  5606+************************************************************** @D34DDDK 12080034

0041B6 9180 2014      00014       5608+SEKCHK   TM    ERRQSNS,COMREJ     IS IT COMMAND REJECT       @D34SDDK  12200034
0041BA 4710 D876      048D0       5609+         BO    EXTRAN1            YES, BRANCH TO EXTRAN                12240034
0041BE 950A 3003      00003       5610+SEKCHK1  CLI   PUBERR,TEN         RETRY GREATER THAN 10                12320034
0041C2 4720 D876      048D0       5611+         BH    EXTRAN1            YES, BRANCH TO EXTRAN                12360034
0041C6 4150 DB4E            04BA8 5612+RECALIB  LA    R5,EDCCWR          GET CCW ADDRESS            @D34SDDK  12400034
0041CA 4580 D9D0            04A2A 5613+         BAL   R8,DSKIORTN        BRANCH TO DISK-IO-ROUTINE  @D34SDDK  12440034
                                  5614+* RETURN +0 ON ERROR +4 IF NO I/O ERROR OCCURRED              @DY20398  12450034
0041CE 47F0 D86A      048C4       5615+         B     RCVERR1            ERROR ON RECOVERY          @DY20398  12460034
0041D2 47F0 D1AC      04206       5616+         B     RMSD00             GO TO RETRY EXIT           @DY15773  12480034


                                  5618************************************************************** @D34DDDK 12600034
                                  5619+*                                                            * @D34DDDK 12640034
                                  5620+*              RETRY ROUTINE                                 * @D34DDDK 12680034
                                  5621+*                                                            * @D34DDDK 12720034
                                  5622************************************************************** @D34DDDK 12760034

0041D6 9501 3003      00003       5624+RETRY01  CLI   PUBERR,ONE         ALREADY RETRIED 1 TIME               12840034
0041DA 47F0 D188      041E2       5625+         B     TENCHECK                                                13080034


0041DE 950A 3003      00003       5627+RETRY10  CLI   PUBERR,TEN         ALREADY RETRIED 10 TIMES             13170034
0041E2 47D0 D1AC      04206       5628+TENCHECK BNH   RMSD00             NO,GO TO RMSD00 TO RETRY   @DL29SOM  13210034
0041E6 9568 3004      00004       5629+         CLI   PUBDEVTY,T3340     IS IT A 3340 (BOTH MODELS) @DM11635  13220034
0041EA 4740 D876      048D0       5630+         BL    EXTRAN1            NO, BRANCH                 @D34DDDK  13250034
0041EE 956A 3004      00004       5631+         CLI   PUBDEVTY,T334070   IS IT A 3340 70MB          @D34DDDK  13270034
0041F2 4720 D876      048D0       5632+         BH    EXTRAN1            NO, GO TO EXTRAN           @D34DDDK  13290034
0041F6 911C 2014      00014       5633+         TM    ERRQSNS,DATACHK+EQUIPCHK+E3ORUN EQUIP CHECK,  @D34SDDK  13310034
                                  5634+*                                 DATA CHECK OR OVERRUN      @DL29SOM  13330034
0041FA 4780 D876      048D0       5635+         BZ    EXTRAN1            NO GO TO EXTRAN            @DL29SOM  13350034
0041FE 9680 2015      00015       5636+         OI    ERRQSNS+D1,E3PERM  SET PERM ERROR BIT         @D34SDDK  13370034
004202 47F0 D876      048D0       5637+         B     EXTRAN1            GO TO EXTRAN               @DL29SOM  13390034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  5639+************************************************************ @D34DDDK 13530034
                                  5640+*                                                          * @D34DDDK 13550034
                                  5641+*    THIS ROUTINE SETS UP FOR SOFT ERROR RECORDING.        * @D34DDDK 13570034
                                  5642+*    ONLY THE INITIAL ERROR IS RECORDED-NO RETRY FAILURES. * @D34DDDK 13590034
                                  5643+*    NO RECORDING IS PERFORMED FOR SYSRES 2314.            * @DY15773 14280034
                                  5644+*                                                          * @D34DDDK 14350034
                                  5645+************************************************************ @D34DDDK 14390034

                            04206 5647+RMSD00   EQU   *                                           @DL28754 14470034
004206 947F 3006            00006 5648+         NI    PUBCSFLG,XFF-DEVBSY ALLOW RETRY             @DL28754 14550034
00420A 1211                       5649+         LTR   R1,R1               IS THERE A CCB          @DL28754 14590034
00420C 4780 D862            048BC 5650+         BZ    INITRG5             NO, NO ERROR RECORDING  @DL28754 14630034
004210 9563 3004            00004 5651+         CLI   PUBDEVTY,T3330      IS IT 2311/14/19        @DY15773 14880034
004214 4740 D1CE            04228 5652+         BL    RMSD10              YES, BRANCH             @DY15773 14920034
004218 45E0 B292                  5653+         BAL   RE,RMSGETP2         GO FIND PUB2 ADDRESS    @DL28754 15390034
                            00000 5654+         USING PUB2ADR,R8          SET BASE                        15430034
00421C 9140 8006            00006 5655+         TM    P2DFLG,P2DLOG       DOES ERP WANT ERROR LOGGED @DL28754 15470034
004220 4780 D862            048BC 5656+         BZ    INITRG5             NO, NO RECORDING        @DL28754 15550034
                            00000 5657+         USING SVEARA,R8           STANDARD ADDRESSING     @DY15773 15555034
004224 47F0 D1DE            04238 5658+         B     RMSD12                                      @DA01096 15580034


                            04228 5660+RMSD10   EQU   *                                           @DL28754 15840034
004228 4930 0690            00690 5661+         CH    R3,YPUBTAB          ERROR ON SYS I/O        @DY15773 15850034
00422C 4740 D862            048BC 5662+         BL    INITRG5             YES,NO ERROR RECORDING  @DY15773 15860034
004230 9501 3003            00003 5663+         CLI   PUBERR,ONE          IS THIS THE INITIAL ERROR @DA01096 15880034
004234 4770 D862            048BC 5664+         BNE   INITRG5             NO , RETRY              @DA01096 15920034
004238 9102 0689            00689 5665+RMSD12   TM    LCBYTE,FCHQ         SCIL UPDATE IN PROCESS  @DY15773 15968034
00423C 4710 D862            048BC 5666+         BO    INITRG5             YES, DO NOT LOG         @DM06177 15969034
004240 92E3 200B            0000B 5667+         MVI   ERRQMSG,RMSDERR2    POST SPECIAL SOFT ERROR CODE @DY15773 15971034
004244 4930 0690                  00690 5668+   CH    R3,YPUBTAB          ERROR ON SYS I/O        @DY15773 15976034
004248 4740 D876            048D0 5669+         BL    EXTRAN1             PUT ERROR IN QUEUE IF SO @DY15773 15984034
00424C 92E2 200B            0000B 5670+         MVI   ERRQMSG,RMSDERR     POST SOFT ERROR IN ERRQ @DL28754 16024034
004250 47F0 D876            048D0 5671+         B     EXTRAN1             PUT ERROR IN QUEUE      @DL28754 16120034


                                  5673+************************************************************ @D34DDDK 16400034
                                  5674+*                                                          * @D34DDDK 16440034
                                  5675+*              NO RECORD FOUND ROUTINE                     * @D34DDDK 16480034
                                  5676+*                                                          * @D34DDDK 16520034
                                  5677+************************************************************ @D34DDDK 16560034

004254 9102 2015            00015 5679+NORCD    TM    ERRQSNS+D1,MISSMARK IS IT MISSING ADDR MARKER @D34SDDK 16680034
004258 4710 D164            041BE 5680+         BO    SEKCHK1             YES, SAME AS SEEK CHECK         16720034
00425C 4570 D31A                  04374 5681+   BAL   R7,READHAR0         READ HOME ADDRESS AND R0        16760034
004260 D501 DBAA DBA6 04C04 04C00 5682+         CLC   DSKUSRSK,EDR0       EQUATE USER SEEK ADDRESS @DY20398 16800034
004266 4770 D164            041BE 5683+         BNE   SEKCHK1             NOT EQUAL, SEEK CHECK    @DY20322 16826034
00426A 9680 200A            0000A 5684+NORCD1   OI    ERRQFLG,TRUNRF      PASS INFORMATION TO MONITOR @D34SDDK 16920034
00426E 9104 1003            00003 5685+         TM    CCBCOM2,NRFRETRY    DOES USER WANT RETRY ON NO RECORD FND 16960034
004272 4710 D184            041DE 5686+         BO    RETRY10             YES, RETRY 10 TIMES             17000034
004276 9608 1003            00003 5687+         OI    CCBCOM2,NORCDFND    POST NO RECORD FOUND TO CCB     17040034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00427A 47F0 D8C0      0491A        5688+         B     EXIGN2              GO IGNORE INTERRUPT                    17080034


                                   5690+************************************************************ @DA08968 17160034
                                   5691+*                                                          * @D34DDDK 17200034
                                   5692+*        FILE PROTECT IS FORCED BY ERP TO PREVENT CYLINDER  * @DA08968 17240034
                                   5693+*        OR HEAD SEEKS FROM AN ALTERNATE TRACK.            * @DA08968 17280034
                                   5694+*        THIS IS NECESSARY, BECAUSE A NEW TRACK CONDITION  * @DA08968 17320034
                                   5695+*        CHECK IS NOT INDUCED IN THAT CASE.                * @DA08968 17360034
                                   5696+*                                                          * @D34DDDK 17400034
                                   5697+************************************************************ @DA08968 17440034

00427E 4570 D31A            04374  5699+FILEPROT BAL   R7,READHAR0        READ HOME ADDRESS AND R0     @DA08968 17520034
004282 9101 DB9E      04BF8        5700+         TM    EDHA,ALTTRK         IS IT ALTERNATE TRACK        @DA08968 17560034
004286 4780 D876      048D0        5701+         BZ    EXTRAN1             NO, ERROR NOT FORCED BY ERP  @DA08968 17600034
00428A D501 DBAA DBA6 04C04 04C00  5702+         CLC   DSKUSRSK,EDR0       EQUATE USER SEEK ADDRESS     @DY20398 17648034
004290 4770 D86A      048C4        5703+         BNE   RCVERR1             NOT EQUAL, ERROR ON RECOVERY @DY20398 17656034
004294 5880 2000            00000  5704+         L     R8,ERRQCSW          GET REAL ADDRESS OF CCW      @DY20398 17664034
004298 4B80 08F2            008F2  5705+         SH    R8,H8               BACK TO FAILING              @DA08968 17680034
00429C BE87 DB97            04BF1  5706+         STCM  R8,M7,EDCCWT+D1     SET TIC TO USER CHAIN        @DA08968 18180034
0042A0 1898                        5707+         LR    R9,R8               TAKE OVER IN R9              @DA08968 18280034
0042A2 4560 B18C            0118C  5708+         BAL   R6,VIRTAD           FIND IT'S VIRTUAL ADDRESS    @DA08968 18310034
0042A6 5890 070C            0070C  5709+         L     R9,AINTER           RESTORE BASE FOR IOINTER     @DA08968 18340034
0042AA 45E0 D854            048AE  5710+         BAL   RE,ADTST            GO CHECK VALIDITY OF ADDRESS @DA08968 18370034
0042AE 9103 8000      00000        5711+         TM    D0(R8),CONTROL      IS IT A SEEK COMMAND         @DA08968 18400034
0042B2 47E0 D28A      042E4        5712+         BNO   FPCONT             NO, MULTITRACK OPERATION     @DA08968 18530034
0042B6 9200 DB8B      04BE5        5713+         MVI   EDCCWF+D5,WHAWR0    CLEAN FILE MASK              @DA08968 18600034
0042BA 47F0 D2D8      04332        5714+         B     EXTIC               SEEK ADDRESS IS CORRECT      @DA08968 18640034


                                   5716+************************************************************ @D34DDDK 18720034
                                   5717+*                                                          * @D34DDDK 18760034
                                   5718+*              TRACK CHECK ROUTINE                         * @D34DDDK 18800034
                                   5719+*                                                          * @D34DDDK 18840034
                                   5720+************************************************************ @D34DDDK 18880034

0042BE 5880 2000            00000  5722+TRKCHK   L     R8,ERRQCSW          GET CCW ADDRESS IN R8        @D34SDDK 18960034
0042C2 4B80 08F2            008F2  5723+         SH    R8,H8               POINT TO PREVIOUS CCW                 19000034
0042C6 BE87 DB97            04BF1  5724+         STCM  R8,M7,EDCCWT+D1     SET TIC TO USER CHAIN                 19040034
0042CA 4570 D31A            04374  5725+         BAL   R7,READHAR0         READ HOME ADDRESS AND R0              19080034
0042CE 9218 DB8B      04BE5        5726+         MVI   EDCCWF+D5,INHALLSK  PREVENT ALL SEEKS             @DA08968 19120034
0042D2 9101 DB9E      04BF8        5727+         TM    EDHA,ALTTRK         IS IT ALTERNATE TRACK                 19160034
0042D6 4780 D2CE      04328        5728+         BZ    EXTIC0              NO, DEFECTIVE TRACK          @DY20398 19204034
0042DA D501 DBAA DBA6 04C04 04C00  5729+         CLC   DSKUSRSK,EDR0       EQUATE USER SEEK ADDRESS     @DY20398 19208034
0042E0 4770 D86A      048C4        5730+         BNE   RCVERR1             NOT EQUAL, ERROR ON RECOVERY @DY20398 19212034
0042E4 9200 DB8B      04BE5        5731+FPCONT   MVI   EDCCWF+D5,WHAWR0    CLEAN FILE MASK              @DA08968 19240034
0042E8 9513 DBA9      04C03        5732+         CLI   HEAD,HEAD19         IS HEAD NUMBER MORE THAN 18  @D34DDDK 19280034
0042EC 47B0 D30C      04366        5733+         BNL   CYLEND              YES, CYLINDER END                     19320034
0042F0 9568 3004      00004        5734+         CLI   PUBDEVTY,T3340      IS IT A 3340 (BOTH MODELS)   @DM11635 19380034
0042F4 4740 D2AE      04308        5735+         BL    NOT3340             NO, BRANCH                   @D34DDDK 19440034
0042F8 956A 3004      00004        5736+         CLI   PUBDEVTY,T334070    IS IT A 3340 70MB            @D34DDDK 19480034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0042FC 4720 D2AE      04308        5737+         BH    NOT3340             NO, BRANCH                    @D34DDDK 19520034
004300 950B DBA9      04C03        5738+         CLI   HEAD,HEAD11         IS HEAD NUMBER MORE THAN 10   @D34DDDK 19560034
004304 47B0 D30C      04366        5739+         BNL   CYLEND              YES,CYLINDER END              @DL29SOM 19600034
                            04308  5740+NOT3340  EQU   *                                                 @DL29SOM 19640034
004308 9560 3004      00004        5741+         CLI   PUBDEVTY,T2311      IS DEVICE A 2311                       19720034
00430C 4770 D2BE      04318        5742+         BNE   TRKNO               NO, BRANCH (IT IS 2314/2319)           20030034
004310 9509 DBA9      04C03        5743+         CLI   HEAD,HEAD09         IS HEAD NUMBER MORE THAN 8    @D34DDDK 20100034
004314 47B0 D30C      04366        5744+         BNL   CYLEND              YES, CYLINDER END                      20130034
004318 4880 DBA8            04C02  5745+TRKNO    LH    R8,EDR0+L2          USE ADDRESS OF DEFECTIVE TRACK         20160034
00431C 4188 0001            00001  5746+         LA    R8,D1(R8)           - PLUS ONE                             20190034
004320 4080 DBA8            04C02  5747+         STH   R8,EDR0+L2          - FOR NEW SEEK ADDRESS                 20220034
004324 47F0 D2D8      04332        5748+         B     EXTIC               CONTINUE                  @DY20398 20230034
004328 D501 DBAA DB9F 04C04 04BF9  5749+EXTIC0   CLC   DSKUSRSK,EDHA+D1    EQUATE USER SEEK ADDRESS  @DY20398 20235034
00432E 4770 D86A      048C4        5750+         BNE   RCVERR1            NOT EQUAL, ERROR ON RECOVERY @DY20398 20240034
                            04332  5751+EXTIC    EQU   *                                                      20250034
004332 4570 DA40            04A9A  5752+         BAL   R7,DSKIR010         GET IRS BLOCK OR ITS ADDRESS @DY20090 20350034
                            00000  5753+         USING IRSADR,RF           ADDRESSABILTY                @DY15773 20510034
004336 D22F F000 DB6E 00000 04BC8  5754+         MVC   IRSEDSK(IRSEDLEN),EDCCWS BUILD RESTART           @DY15773 20530034
00433C D206 F038 DBA4 00038 04BFE  5755+         MVC   IRSPSKAD,EDSA       *  CHANNEL PROGRAM           @DY15773 20550034
004342 4180 F038            00038  5756+         LA    R8,IRSPSKAD         *                            @DY15773 20570034
004346 BE87 F001            00001  5757+         STCM  R8,M7,IRSEDSK+D1    *                            @DY15773 20590034
00434A 4180 F03A            0003A  5758+         LA    R8,IRSPSKAD+D2      *                            @DY15773 20610034
00434E BE87 F009            00009  5759+         STCM  R8,M7,IRSEDSCH+D1   *                            @DY15773 20630034
004352 4180 F008            00008  5760+         LA    R8,IRSEDSCH         *                            @DY15773 20650034
004356 BE87 F011            00011  5761+         STCM  R8,M7,IRSEDT1+D1    *                            @DY15773 20670034
00435A 4180 F01D            0001D  5762+         LA    R8,IRSEDSFM+D5      *                            @DY15773 20690034
00435E BE87 F019            00019  5763+         STCM  R8,M7,IRSEDSFM+D1   *                            @DY15773 20710034
004362 47F0 D862      048BC        5764+         B     INITRG5             TRY IT NOW                   @DY15773 20730034



                                   5766+************************************************************ @D34DDDK 20990034
                                   5767+*                                                          * @D34DDDK 21010034
                                   5768+*              CYLINDER END ROUTINE                        * @D34DDDK 21030034
                                   5769+*                                                          * @D34DDDK 21050034
                                   5770+************************************************************ @D34DDDK 21070034

004366 9620 1003      00003        5772+CYLEND   OI    CCBCOM2,EOC         POST END OF CYLINDER TO CCB            21110034
00436A D600 1003 2015 00003 00015  5773+TRKEOC   OC    CCBCOM2,ERRQSNS+D1  POST TRACK OVERRUN OR EOC  @D34SDDK 21130034
004370 47F0 D8C0      0491A        5774+         B     EXIGN2              IGNORE THE ERROR                       21150034



                                   5776+************************************************************ @D34DDDK 21190034
                                   5777+*                                                          * @D34DDDK 21210034
                                   5778+*       READ HOME ADDRESS AND RECORD 0 ROUTINE             * @D34DDDK 21230034
                                   5779+*                                                          * @D34DDDK 21250034
                                   5780+************************************************************ @D34DDDK 21270034

004374 4150 DB56            04BB0  5782+READHAR0 LA    R5,EDCCWH           SET CCW ADDRESS              @D34SDDK 21330034
004378 9180 200C      0000C        5783+         TM    ERRQDFLG,ERRQSINV   IS SEEK ADDRESS IN ERROR     @DY20398 21333134
00437C 4710 D86A      048C4        5784+         BO    RCVERR1             YES, BRANCH                  @D34SDDK 21336134
004380 4580 D9D0            04A2A  5785+RHA90    BAL   R8,DSKIORTN         BRANCH TO DISK-IO-ROUTINE    @D34SDDK 21350034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   5786+* RETURN +0 ON ERROR +4 IF NO I/O ERROR OCCURRED                @DY20398 21380034
004384 47F0 D86A      048C4        5787+         B     RCVERR1              ERROR ON RECOVERY          @DY20398 21390034
004388 D203 200C DB9F 0000C 04BF9  5788+         MVC   ERRQSEK,EDHA+D1      PUT CCHH IN ERROR QUEUE    @D34SDDK 21410034
00438E 07F7                        5789+         BR    R7                   RETURN                              21430034



                                   5791+*************************************************************** @DL29SOM 21510034
                                   5792+*                                                             * @DL29SOM 21530034
                                   5793+*     3340 AND 3330/3350 ERROR RECOVERY PROCEDURE             * @D34DDDK 23110034
                                   5794+*                                                             * @DL29SOM 23190034
                                   5795+*************************************************************** @DL29SOM 23230034

                                   5797+*     DETERMINE WHETHER ERROR IS TO BE LOGGED                         23350034


                             04390 5799+ERR3340  EQU   *                                               @DL29SOM 23470034
004390 9109 2014      00014        5800+         TM    ERRQSNS,SEEKCHK+DATACHK  SEEK CHECK OR         @D34SDDK 23510034
                                   5801+*                                       ANY DATA CHECK         @DL29SOM 23550034
004394 4770 D3AA      04404        5802+         BNZ   ERRLOG1                  YES, LOG               @DL29SOM 23590034
                             04398 5803+ERR3330  EQU   *                                               @DL29SOM 23710034
004398 9567 3004      00004        5804+         CLI   PUBDEVTY,T3350           IS IT A 3350           @D34DDDK 23790034
00439C 4770 D38A      043E4        5805+         BNE   ERR01                   NO, BRANCH             @D34DDDK 23830034
0043A0 9108 2014      00014        5806+         TM    ERRQSNS,DATACHK          DATACHK                @D34SDDK 23870034
0043A4 47E0 D37A      043D4        5807+         BNO   ERR05                   NO, BRANCH             @D34DDDK 23910034
0043A8 9140 2016      00016        5808+         TM    ERRQSNS+D2,E3COR         CORRECTABLE            @D34SDDK 23950034
0043AC 4780 D37A      043D4        5809+         BZ    ERR05                   NO, BRANCH             @D34DDDK 23950134
0043B0 45E0 B292            01292  5810+         BAL   RE,RMSGETP2             FIND PUB2 ADDRESS      @D34DDDK 23950234
                            00000  5811+         USING PUB2ADR,R8               ESTABL ADDRESSABILITY  @D34DDDK 23950334
0043B4 48E0 8014            00014  5812+         LH    RE,P23350CR+4            *                      @D34DDDK 23950434
0043B8 41EE 0001            00001  5813+         LA    RE,1(RE)                 * INCREASE COUNTER BY 1 @D34DDDK 23950534
0043BC 40E0 8014            00014  5814+         STH   RE,P23350CR+4            *                      @D34DDDK 23950634
0043C0 D501 D378 8014 043D2 00014  5815+         CLC   MAX2,P23350CR+4          IS COUNTER FULL        @D34DDDK 23950734
0043C6 4770 D3AA      04404        5816+         BNE   ERRLOG1                  BRANCH                 @DY15773 23950834
0043CA 9640 8006      00006        5817+         OI    P2DFLG,P2DLOG            REQUEST ERROR LOGGING  @DY15773 23957834
0043CE 47F0 D1AC      04206        5818+         B     RMSD00                   GO, DO IT              @DY15773 23964834
0043D2 FFFF                        5819+MAX2     DC    X'FFFF'                  MAX VALUE IN 2 BYTES   @D34DDDK 23990134

                             043D4 5821+ERR05    EQU   *                                               @D34DDDK 24030034
0043D4 9140 2014      00014        5822+         TM    ERRQSNS,INTVRQD          INTERVENTION REQUIRED  @D34SDDK 24070034
0043D8 47E0 D38A      043E4        5823+         BNO   ERR01                   NO, BRANCH             @D34DDDK 24110034
0043DC 910C 201E      0001E        5824+         TM    ERRQSNS+D10,X'0C'        BITS 4,5 OF BYTE 10 ON @D34SDDK 24150034
0043E0 4770 D3AA      04404        5825+         BNZ   ERRLOG1                  YES, BRANCH            @D34DDDK 24190034
                             043E4 5826+ERR01    EQU   *                                               @D34DDDK 24230034
                                   5827+*                                                              @D34DDDK 24310034
0043E4 9134 2014      00014        5828+         TM    ERRQSNS,EQUIPCHK+E3BOP+E3ORUN  EQUIPMENT CHECK @D34SDDK 24350034
                                   5829+*                                       OR BUS OUT PARITY      @DM00118 24390034
                                   5830+*                                       CHECK OR OVERRUN CHK   @DM00118 24430034
0043E8 4770 D3AA      04404        5831+         BNZ   ERRLOG1                  BRANCH IF YES                   24470034
0043EC 9110 2016      00016        5832+         TM    ERRQSNS+D2,E3EVD         ENVIRONMENTAL DATA     @D34SDDK 24510034
0043F0 4710 D3B2      0440C        5833+         BO    ERRLOG2                  BRANCH IF YES                   24550034
0043F4 9108 2014      00014        5834+         TM    ERRQSNS,DATACHK          DATA CHECK             @D34SDDK 24630034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0043F8 4780 D3BA      04414        5835+         BZ    NOLOG                 BRANCH IF NO                        24670034
0043FC 9140 2016      00016        5836+         TM    ERRQSNS+D2,E3COR      CORRECTABLE              @D34SDDK   24710034
004400 4710 D3BA      04414        5837+         BO    NOLOG                 BRANCH IF YES                       24750034
                            04404  5838+ERRLOG1  EQU   *                                                       24830034
004404 9501 3003      00003        5839+         CLI   PUBERR,E3K1           FIRST OCCURRANCE THIS ERROR         24870034
004408 4770 D3BA      04414        5840+         BNE   NOLOG                 BRANCH IF NO                        24910034
                            0440C  5841+ERRLOG2  EQU   *                                                       24950034
00440C 45E0 B292            01292  5842+         BAL   RE,RMSGETP2           GO FIND PUB2 ADDRESS FOR DEVICE     24990034
                                   5843+*     SET ERROR LOGGING INDICATOR FOR RMSR                            25030034
                            04410  5844+ERRLOG3  EQU   *                                             @D34DDDK  25030334
                            00000  5845+         USING PUB2ADR,R8                                              25030634
004410 9640 8006      00006        5846+         OI    P2DFLG,P2DLOG         REQUEST ERROR LOGGING               25110034
                                   5847+         DROP  R8                                          @D34DDDK  25111034
                            00000  5848+         USING SVEARA,R8             DECLARE STANDARD USING              25150034
                            04414  5849+NOLOG    EQU   *                                                       25190034
004414 9563 3004      00004        5850+         CLI   PUBDEVTY,T3330        IS IT 3330               @DL29SOM   25310034
004418 4780 D452      044AC        5851+         BE    RTN3330               YES, GO TO THAT ROUTINE  @DL29SOM   25350034
00441C 9565 3004      00004        5852+         CLI   PUBDEVTY,T3330B       IS IT A 3330-11          @D34DDDK   25390034
004420 4780 D452      044AC        5853+         BE    RTN3330               YES, BRANCH              @D34DDDK   25430034
004424 9567 3004      00004        5854+         CLI   PUBDEVTY,T3350        IS IT A 3350             @D34DDDK   25510034
004428 4780 D452      044AC        5855+         BE    RTN3330               YES, BRANCH              @D34DDDK   25550034
                            0442C  5856+RTN3340  EQU   *                                             @DL29SOM  25670034
00442C 9180 2014      00014        5857+         TM    ERRQSNS,COMREJ        COMMAND REJECT           @D34SDDK   26030034
004430 4710 D876      048D0        5858+         BO    EXTRAN1               YES, GO TO SUPERV RTN    @DL29SOM   26070034
004434 9140 2015      00015        5859+         TM    ERRQSNS+D1,E3ITF      INVALID TRACK FORMAT     @D34SDDK   26110034
004438 4710 D4B6      04510        5860+         BO    ITF370                YES, 370  RTN WILL DO    @DL29SOM   26150034
00443C 9108 2015      00015        5861+         TM    ERRQSNS+D1,E3NRF      NO RECORD FOUND          @D34SDDK   26190034
004440 4710 D210      0426A        5862+         BO    NORCD1                YES, GO TO THAT ROUTINE  @DL29SOM   26230034
004444 9140 2014      00014        5863+         TM    ERRQSNS,INTVRQD       INTERVENTION REQ'D       @D34SDDK   26270034
004448 4710 D876      048D0        5864+         BO    EXTRAN1               NO RETRY, CUT OUT        @DL29SOM   26310034
00444C 9120 2014      00014        5865+         TM    ERRQSNS,E3BOP         BUS OUT CHECK            @D34SDDK   26350034
004450 4710 D17C      041D6        5866+         BO    RETRY01               YES, RETRY ONCE          @DA08689   26390034
004454 9110 2016      00016        5867+         TM    ERRQSNS+D2,E3EVD      ENVIRON DATA PRESENT     @D34SDDK   26430034
004458 4710 D518      04572        5868+         BO    ENVD370               YES, USE A 370 ROUTINE   @DL29SOM   26470034
00445C 9110 2014      00014        5869+         TM    ERRQSNS,EQUIPCHK      EQUIPMENT CHECK          @D34SDDK   26510034
004460 4710 D184      041DE        5870+         BO    RETRY10               YES,  TRY, TRY AGAIN     @DL29SOM   26550034
004464 9108 2014      00014        5871+         TM    ERRQSNS,DATACHK       DATA CHECK               @D34SDDK   26590034
004468 47E0 D41E      04478        5872+         BNO   RTN3340N              NO, CHECK SOME MORE      @DL29SOM   26670034
00446C 9501 3003      00003        5873+         CLI   PUBERR,ONE           FIRST PASS THROUGH       @DL29SOM   26710034
004470 4720 D526      04580        5874+         BH    DCK370                NO, GO DO WHATS NEEDED   @DL29SOM   26750034
004474 47F0 D1AC      04206        5875+         B     RMSD00                YES, GO LOG THE ERROR    @DL29SOM   26790034


                            04478  5877+RTN3340N EQU   *                                             @DL29SOM  26870034
004478 9101 2015      00015        5878+         TM    ERRQSNS+D1,E3INC      OVERFLOW                 @D34SDDK   27030034
00447C 4710 D876      048D0        5879+         BO    EXTRAN1               YES,DO NOT RECOVER       @DM06318   27070034
004480 9104 2014      00014        5880+         TM    ERRQSNS,E3ORUN        IS IT OVERRUN            @D34SDDK   27110034
004484 4710 D184      041DE        5881+         BO    RETRY10               YES, GO RETRY 10 TIMES   @DL29SOM   27150034
004488 9102 2014      00014        5882+         TM    ERRQSNS,TRCNDCHK      TRACK CONDITION CHECK    @D34SDDK   27190034
00448C 4710 D264      042BE        5883+         BO    TRKCHK                YES, GO TO THAT ROUTINE  @DL29SOM   27230034
004490 9101 2014      00014        5884+         TM    ERRQSNS,SEEKCHK       SEEK CHECK               @D34SDDK   27270034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

004494 4710 D164      041BE        5885+         BO    SEKCHK1                YES, GO TO SEEK CHK RTN @DL29SOM 27310034
004498 9120 2015      00015        5886+         TM    ERRQSNS+D1,E3EOC       END OF CYLINDER         @D34SDDK 27350034
00449C 4710 D4DA      04534        5887+         BO    EOC370                 YES, USE 370 EOC RTN    @DL29SOM 27390034
0044A0 9104 2015      00015        5888+         TM    ERRQSNS+D1,E3FP        IS IT FILE PROTECTION   @D34SDDK 27430034
0044A4 4710 D224      0427E        5889+         BO    FILEPROT               YES, LOOK IF ERP-FORCED @DA08968 27470034
0044A8 47F0 D876      048D0        5890+         B     EXTRAN1                TRANSIENTS FOR ALL ELSE @DL29SOM 27510034

                            044AC  5892+RTN3330  EQU   *                                              @DL29SOM 27670034
                                   5893+*     INTERROGATE SENSE BYTES                                  27870034
0044AC 9180 2015      00015        5894+         TM    ERRQSNS+D1,E3PERM      PERMANENT ERROR         @D34SDDK 27910034
0044B0 4710 D876      048D0        5895+         BO    EXTRAN1                BRANCH IF YES                    27950034
0044B4 9110 2014      00014        5896+         TM    ERRQSNS,EQUIPCHK       IS IT EQUIPMENT CHECK   @D34SDDK 27990034
0044B8 4770 D184      041DE        5897+         BNZ   RETRY10                BRANCH IF YES                    28030034
0044BC 9160 2014      00014        5898+         TM    ERRQSNS,E3BOP+INTVRQD  IS IT BUS OUT CHECK OR  @D34SDDK 28070034
                                   5899+*                                     INTERVENTION REQUIRED           28110034
0044C0 4770 D17C      041D6        5900+         BNZ   RETRY01                BRANCH IF YES                    28150034
0044C4 9180 2014      00014        5901+         TM    ERRQSNS,COMREJ         COMMAND REJECT          @D34SDDK 28190034
0044C8 4710 D876      048D0        5902+         BO    EXTRAN1                BRANCH IF YES                    28230034
0044CC 9108 2015      00015        5903+         TM    ERRQSNS+D1,E3NRF       NO RECORD FOUND         @D34SDDK 28270034
0044D0 4710 D210      0426A        5904+         BO    NORCD1                 BRANCH IF YES                    28310034
0044D4 9104 2014      00014        5905+         TM    ERRQSNS,E3ORUN         OVERRUN                 @D34SDDK 28350034
0044D8 4710 D184      041DE        5906+         BO    RETRY10                BRANCH IF YES                    28390034
0044DC 9140 2015      00015        5907+         TM    ERRQSNS+D1,E3ITF       INVALID TRACK FORMAT    @D34SDDK 28430034
0044E0 4710 D4B6      04510        5908+         BO    ITF370                 BRANCH IF YES           @DL29SOM 28470034
0044E4 9108 2014      00014        5909+         TM    ERRQSNS,DATACHK        DATA CHECK              @D34SDDK 28510034
0044E8 4710 D526      04580        5910+         BO    DCK370                 BRANCH IF YES           @DL29SOM 28550034
0044EC 9120 2015      00015        5911+         TM    ERRQSNS+D1,E3EOC       END OF CYLINDER         @D34SDDK 28590034
0044F0 4710 D4DA      04534        5912+         BO    EOC370                 BRANCH IF YES           @DL29SOM 28630034
0044F4 9105 2015      00015        5913+         TM    ERRQSNS+D1,E3FP+E3INC  FILE PROT OR INCOMPLETE @D34SDDK 28670034
0044F8 4770 D876      048D0        5914+         BNZ   EXTRAN1                BRANCH IF YES                    28710034
0044FC 9110 2016      00016        5915+         TM    ERRQSNS+D2,E3EVD       ENVIRNMTL DATA          @D34SDDK 28750034
004500 4710 D518      04572        5916+         BO    ENVD370                BRANCH IF YES           @DL29SOM 28790034
004504 9101 2005      00005        5917+         TM    ERRQCSW+5,CHCHN        CHAINING CHECK          @D34SDDK 28830034
004508 4710 D184      041DE        5918+         BO    RETRY10                BRANCH IF YES                    28870034
00450C 47F0 D876      048D0        5919+         B     EXTRAN1                EXIT FOR ALL REMAINING ERRORS    28910034

                            04510  5921+ITF370  EQU   *                                              @DL29SOM 29030034
004510 5890 2000            00000  5922+         L     R9,ERRQCSW         GET REAL ADDR OF CCW        @D34DSAP 29110034
004514 4B90 08F2            008F2  5923+         SH    R9,H8              BACK TO FAILING             @DA05691 29150034
004518 4560 B18C            0118C  5924+         BAL   R6,VIRTAD          FIND IT'S VIRT ADDR         @DA05691 29190034
00451C 5890 070C            0070C  5925+         L     R9,AINTER          RESTORE BASE FOR IOINTER    @DA05691 29230034
004520 45E0 D854            048AE  5926+         BAL   RE,ADTST           GO CHECK VALIDITY OF ADDR   @DA05691 29270034
004524 9102 8000      00000        5927+         TM    D0(R8),X'02'           IS IT A READ CMD        @DA01220 29510034
004528 4710 D17C      041D6        5928+         BO    RETRY01                YES, RETRY ONE TIME     @DA01220 29550034
00452C 9640 1003      00003        5929+         OI    CCBCOM2,E3TKOF         POST TRK OVRFLW IN CCB  @DL28754 29590034
004530 47F0 D8C0      0491A        5930+         B     EXIGN2                 IGNORE ERROR                     29630034

                            04534  5932+EOC370  EQU   *                                              @DL29SOM 29710034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

004534 9620 1003      00003        5933+         OI    CCBCOM2,EOC             POST END OF CYLINDER IN CCB      29750034
004538 95FF 4005      00005        5934+         CLI   CHQIRSPT,XFF       IRS BLOCK AVAILABLE           @DY15773 29752034
00453C 4780 D8C0      0491A        5935+         BE    EXIGN2             NO, JUST GO TO IGNORE         @DY15773 29754034
004540 D502 0805 2001 00805 00001  5936+         CLC   AFRSTIRS+D1(L3),ERRQCSW+D1 ** CHECK IF EOC      @DY15773 29756034
004546 4720 D8C0      0491A        5937+         BH    EXIGN2                     ** OCCURED WITHIN    @DY15773 29758034
00454A D502 0809 2001 00809 00001  5938+         CLC   AIRSBLND+D1(L3),ERRQCSW+D1 ** THE ECF CHNL      @DY15773 29760034
004550 4740 D8C0      0491A        5939+         BL    EXIGN2                     ** PROGRAM           @DY15773 29762034
004554 1FFF                        5940+         SLR   RF,RF               CLEAR                         @DY15773 29764034
004556 43F0 4005            00005  5941+         IC    RF,CHQIRSPT         GET POINTER                   @DY15773 29766034
00455A 4CF0 080C            0080C  5942+         MH    RF,IRSLEN           MULTIPLY BY LENGTH            @DY15773 29768034
00455E 5AF0 0804            00804  5943+         A     RF,AFRSTIRS         IRS BLOCK ADDRESS             @DY15773 29770034
                            00000  5944+         USING IRSADR,RF           ADDRESSABILITY                @DY15773 29772034
004562 58F0 F030            00030  5945+         L     RF,IRSECTIC         TIC ARGUMENT                  @DY15773 29774034
004566 41F0 F008            00008  5946+         LA    RF,D8(,RF)          USERS CCW HAVING EOC          @DY15773 29776034
00456A BEF7 2001            00001  5947+         STCM  RF,M7,ERRQCSW+D1    USER CHAIN ADDR TO ERRQ       @DY15773 29778034
00456E 47F0 D8C0      0491A        5948+         B     EXIGN2                  IGNORE ERROR                     29790034


                            04572  5950+ENVD370  EQU   *                                                 @DL29SOM 29870034
004572 4370 3003            00003  5951+         IC    R7,PUBERR               DECREMENT ERROR COUNT            29910034
004576 0670                        5952+         BCTR  R7,ZERO                 BY ONE AND PUT IT                29950034
004578 4270 3003            00003  5953+         STC   R7,PUBERR               BACK IN PUB                      29990034
00457C 47F0 D1AC      04206        5954+         B     RMSD00                  RETRY USERS CHANNEL PROGRAM      30030034


                            04580  5956+DCK370   EQU   *                                                 @DL29SOM 30110034
004580 9140 2016      00016        5957+         TM    ERRQSNS+D2,E3COR        IS ERROR CORRECTABLE     @D34SDDK 30150034
004584 4780 D184      041DE        5958+         BZ    RETRY10                 BRANCH IF NO                     30190034
004588 9101 2015      00015        5959+         TM    ERRQSNS+D1,E3INC        OVERFLOW ERROR ALSO      @D34SDDK 30230034
00458C 4710 D876      048D0        5960+         BO    EXTRAN1                 BRANCH IF YES                    30270034
                                   5961+*     ERROR CORRECTION FUNCTION FOR 370 DASD                        @DL29SOM 30310034
004590 D202 DAB3 2023 04B0D 00023  5962+            MVC   ECFCOUNT+D1(L3),ERRQ+SNSCLOCK ALIGN CLOCK BYTES  @D34SDDK 30350034
004596 D201 DAB8 2026 04B12 00026  5963+            MVC   ECFDISP+D2(L2),ERRQ+SNSDISP ALIGN REAR          @D34SDDK 30390034
                                   5964+*                                   DISPLACEMENT                  @DL28754 30430034
00459C 5850 DAB2            04B0C  5965+            L     R5,ECFCOUNT         LOAD CLOCK BYTES          @DL28754 30470034
0045A0 5B50 DAB6            04B10  5966+            S     R5,ECFDISP          SUBTRCT REAR DISPLCEMNT   @DL28754 30510034
                                   5967+*     RESULT IS THE FORWARD DISPLACEMENT TO THE ERROR               @DL28754 30550034
0045A4 5890 2000            00000  5968+            L     R9,ERRQCSW          GET REAL CCW ADDR         @D34SDDK 30630034
0045A8 4B90 08F2            008F2  5969+            SH    R9,H8                                         @DA04394 30670034
0045AC 4560 B18C            0118C  5970+            BAL   R6,VIRTAD           FIND IT'S VIRT ADDR       @DL28754 30710034
0045B0 5890 070C            0070C  5971+            L     R9,AINTER           RESET BASE FOR IOINTER    @DL28754 30750034
0045B4 45E0 D854            048AE  5972+            BAL   RE,ADTST            CHECK VALIDITY OF ADDR    @DL28754 30790034
                            00000  5973+            USING CCWADR,R8           RE-ESTABLISH CCW          @DL28754 31030034
                                   5974+*                                   ADDRESSABILITY                @DL28754 31070034
0045B8 D201 DABC 8006 04B16 00006  5975+            MVC   ECFCCWCT+D2(L2),CCWLNG  SAVE CCW COUNT           @DY20090 31110034
0045BE D207 DAEE 8000 04B48 00000  5976+            MVC   ECFCCW4(L8),CCWTOT  REMEMBER                     @DY20090 31150034
0045C4 9200 DAF2      04B4C        5977+            MVI   ECFCCW4+D4,ZERO     CLEAR FLAGS               @DY20090 31170034
0045C8 4110 2028            00028  5978+            LA    R1,ERRQ+SNSECC      PNT TO CORRECTION CODE    @D34SDDK 31190034
0045CC 41C0 0003            00003  5979+            LA    RC,E3K3             SET LOOP COUNT TO 3       @DY15773 31230034
                            045D0  5980+ECFLOOP   EQU   *                                                 @DL28754 31310034
0045D0 1805                        5981+            LR    R0,R5               GET FORWARD DISP TO ERR   @DL28754 31350034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0045D2 5500 DABA          04B14  5982+         CL    R0,ECFCCWCT          IS ERROR IN THIS SEG    @DL28754 31390034
0045D6 47B0 D5CC    04626       5983+         BNL   ECFEOSEG             BRANCH IF NO            @DL28754 31430034
0045DA 9500 1000    00000       5984+         CLI   D0(R1),ZERO          IS ECC BYTE ZERO        @DL28754 31470034
0045DE 4780 D5C0    0461A       5985+         BE    ECFINCR              BRANCH IF YES           @DL28754 31510034
0045E2 9110 8004    00004       5986+         TM    CCWCHAIN,E3SKIP      IS SKIP FLAG ON IN CCW  @DY20090 31550034
0045E6 4710 D5C0    0461A       5987+         BO    ECFINCR              BRANCH IF YES           @DL28754 31590034
0045EA 9504 4004    00004       5988+         CLI   REQID,PMREQID        REQUEST FROM PAGING SUP @DL28754 31630034
0045EE 4770 D5B2    0460C       5989+         BNE   ECFNOTPM             NO, THEN GET VIR ADDR   @DL28754 31670034
0045F2 ACFA D5AB    04605       5990+         STNSM PSWMSKD,DISREAL      SET SYS - DISABLED      @DM06031 31710034
                                5991+*                                   AND REAL                @DL28754 31750034
0045F6 58F0 8000          00000 5992+         L     RF,CCWBUF            LOAD START ADDR OF DATA @DY20090 31790034
0045FA 41FF 5000          00000 5993+         LA    RF,D0(RF,R5)         ADD FORWARD DISPLACEMNT @DL28754 31830034
0045FE D700 F000 1000 00000 00000 5994+         XC    D0(L1,RF),D0(R1)     APPLY ECC BYTE TO DATA  @DL28754 31870034
                          04605 5995+PSWMSKD  EQU   *+1 .                  MODIFIED BY STNSM       @DM01500 31910034
004604 AD00 B65C    0165C       5996+         STOSM PSWMASK,ZERO         BACK TO ENABLED         @DM01500 31950034
                                5997+*                                   AND VIRTUAL             @DL28754 31990034
004608 47F0 D5C0    0461A       5998+         B     ECFINCR              EVER ONWARD             @DL28754 32030034



                          0460C 6000+ECFNOTPM EQU   *                                           @DL28754 32110034
00460C 4570 B398          01398 6001+         BAL   R7,GETDADR           GO GET DATA ADDRESS     @DL28754 32150034
004610 45E0 D85A          048B4 6002+         BAL   RE,ADTST1            CHECK VALIDITY OF ADDR  @DY15773 32190034
004614 D700 F000 1000 00000 00000 6003+         XC    D0(L1,RF),D0(R1)     APPLY ECC BYTE TO DATA  @DL28754 32230034
                          0461A 6004+ECFINCR  EQU   *                                           @DL28754 32270034
00461A 4110 1001          00001 6005+         LA    R1,D1(,R1)           POINT TO NEXT ECC BYTE  @DL28754 32310034
00461E 4150 5001          00001 6006+         LA    R5,D1(,R5)           INCR FORWARD DISPLCEMNT @DL28754 32350034
004622 46C0 D576          045D0 6007+         BCT   RC,ECFLOOP           DECREMENT AND TEST      @DY15773 32390034
                                6008+*                                   LOOP COUNT              @DL28754 32430034
                          04626 6009+ECFEOSEG EQU   *                                           @DL28754 32470034
004626 D701 2006 2006 00006 00006 6010+         XC    ERRQCSW+D6(L2),ERRQCSW+D6 ZERO RESIDUAL COUNT   @D34SDDK 32750034
00462C D703 DAFA DAFA 04B54 04B54 6011+         XC    ECFCSWW,ECFCSWW      CLEAR INDICATORS        @DY20090 32780034
004632 58F0 DABA          04B14 6012+         L     RF,ECFCCWCT          GET BLOCKSIZE REQUESTED @DM00119 32870034
004636 5BF0 DAB2          04B0C 6013+         S     RF,ECFCOUNT          SUBTRACT BLOCKED BYTES  @DM00119 32910034
00463A 4720 D5FE    04658       6014+         BP    RESCPOS              IF POSITIVE STORE IT    @DY20090 32950034
00463E 9180 8004    00004       6015+         TM    CCWCHAIN,E3DCHN      IS DATA CHAIN FLAG ON   @DY20090 32960034
004642 4710 D810    0486A       6016+         BO    ECFDCHN              BRANCH IF YES           @DY20090 32970034
004646 955E DAEE    04B48       6017+         CLI   ECFCCW4,RDMCKD       CMD READ MULTIPLE CKD   @DY20090 32980034
00464A 4780 D646    046A0       6018+         BE    ECFRM010             YES                     @DY20090 32986034
00464E 12FF                     6019+         LTR   RF,RF                INCORRECT LENGTH        @DY20090 33000034
004650 4740 D612    0466C       6020+         BM    ECFENDRT             YES, CHECK SLI BIT      @DY20090 33010034
004654 47F0 D728    04782       6021+         B     ECFEORCD             CHECK FOR CHAINING      @DY20090 33020034
004658 955E DAEE    04B48       6022+RESCPOS  CLI   ECFCCW4,RDMCKD       CMD READ MULTIPLE CKD   @DY20090 33030034
00465C 4780 D64E    046A8       6023+         BE    ECFRM020             YES                     @DY20090 33037034
004660 40F0 2006          00006 6024+         STH   RF,ERRQCSW+D6        STORE RESIDUAL COUNT    @DY20090 33044034
004664 9180 8004    00004       6025+         TM    CCWCHAIN,E3DCHN      IS DATA CHAIN FLAG ON   @DY20090 33060034
004668 4710 D61A    04674       6026+         BO    ECFPSTIL             YES, INCORRECT LENGTH   @DY20090 33070034
00466C 9120 8004    00004       6027+ECFENDRT TM    CCWCHAIN,SLI         IS SLI FLAG ON          @DY20090 33080034
004670 4710 D728    04782       6028+         BO    ECFEORCD             BRANCH IF SLI ON                 33110034
004674 9640 2005    00005       6029+ECFPSTIL OI    ERRQCSW+D5,IL        POST INCORR LENGTH IN   @DY20090 33150034
                                6030+*                                   CSW                     @DM00119 33510034
                          04678 6031+ECFCEDE  EQU   *                                           @DM11635 33530034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

004678 B180 8008            00008  6032+         LRA   R8,CCWNEXT              GET REAL ADDR OF CCW    @DY20090 33533034
00467C BE87 2001            00001  6033+         STCM  R8,M7,ERRQCSW+D1        UPDATE ERRQ CSW         @DY20090 33536034
004680 5810 2010            00010  6034+         L     R1,ERRQCCB              RESTORE CCB ADDRESS     @DY20090 33539034
004684 4111 0000            00000  6035+         LA    R1,D0(R1)               CLEAR HIGH ORDER BYTE   @DY20090 33542034
004688 960C 2004      00004        6036+         OI    ERRQCSW+D4,CHANEND+DEVEND POST CHANNEL/DEVICE   @DY14519 33546034
                                   6037+*                                      END IN CSW              @DY14519 33556034
00468C 94FD 2004      00004        6038+         NI    ERRQCSW+D4,XFF-UNITCK   TURN OF UNIT CHK BIT    @DY14519 33566034
004690 9140 100C      0000C        6039+         TM    CCBBY3,APPEN            IS THERE AN APPENDAGE   @DA02592 33710034
004694 4780 D8C0      0491A        6040+         BZ    EXIGN2                  NO, IGNORE              @DA02592 33750034
004698 41F0 9000            02EDA  6041+         LA    RF,INTRTN               SET EXIT ADDRESS        @D34SDDK 33790034
00469C 47F0 D8C4      0491E        6042+         B     DSKEXIT                 EXIT                    @D34SDDK 33830034


0046A0 41F0 0001            00001  6044+ECFRM010 LA    RF,1                    JUST A VALID COUNT      @DY20090 33831434
0046A4 9610 DAF2      04B4C        6045+         OI    ECFCCW4+D4,SKIP         NO INPUT WANTED         @DY20090 33832134
0046A8 40F0 DAF4            04B4E  6046+ECFRM020 STH   RF,ECFCCW4+D6           RESTART CCW COUNT       @DY20090 33832834
0046AC D600 DAF2 8004 04B4C 00004  6047+         OC    ECFCCW4+D4(L1),CCWCHAIN PTR CCW FLAGS           @DY20090 33834234

0046B2 95FF 4005      00005        6049+         CLI   CHQIRSPT,XFF            IS A BLOCK QUEUED       @DY20090 33834434
0046B6 4780 D670      046CA        6050+         BE    ECFRM025                NO, IT IS FIRST ERROR   @DY20090 33834534
0046BA 4570 DA40            04A9A  6051+         BAL   R7,DSKIR010             GET ADDRESS OF IRSBLOCK @DY20090 33834634
                            00000  6052+         USING IRSADR,RF               ADDRESSABILITY          @DY20090 33834734
0046BE D203 DAFA F034 04B54 00034  6053+         MVC   ECFCSWW,IRSCSWW         POSSIBLE MULTIPLE ERRORS@DY20090 33834834
0046C4 D200 DAFA F046 04B54 00046  6054+         MVC   ECFIRSTP,IRSTYPE        SO SAVE IRS TYPE        @DY20090 33835334
                                   6055+         DROP  RF                                              @DY20090 33835434
0046CA 9110 DAF2      04B4C        6056+ECFRM025 TM    ECFCCW4+D4,SKIP         SKIPPING ON             @DY20090 33835534
0046CE 4710 D700      0475A        6057+         BO    ECFRM050                YES                     @DY20090 33835734

0046D2 48C0 DAF4            04B4E  6059+         LH    RC,ECFCCW4+D6           RESTART CCW COUNT       @DY20090 33836334
0046D6 12CC                        6060+         LTR   RC,RC                   32K OR LESS             @DY20090 33837034
0046D8 47D0 D6D6      04730        6061+         BNP   ECFRM035                NO, JUST RETRY          @DY20090 33837734

0046DC 4850 8006            00006  6063+         LH    R5,CCWLNG               PTR CCW COUNT           @DY20090 33838434
0046E0 1B5C                        6064+         SR    R5,RC                   I/O START ADDRESS       @DY20090 33839134
0046E2 4110 DAEE            04B48  6065+         LA    R1,ECFCCW4              POINT TO RESTART CCW    @DY20090 33839834
0046E6 9104 8004      00004        6066+         TM    CCWCHAIN,IDAL           IDAL USED               @DY20090 33840534
0046EA 4780 D69E      046F8        6067+         BZ    ECFRM030                NO                      @DY20090 33841234
0046EE 4110 DB06            04B60  6068+         LA    R1,DSKIDAL              IDAL BUILD AREA         @DY20090 33841934
0046F2 D747 DB06 DB06 04B60 04B60  6069+         XC    DSKIDAL,DSKIDAL         CLEAR WORK AREA         @DY20090 33842634
0046F8 1805                        6070+ECFRM030 LR    R0,R5                   TAKE OVER OFFSET        @DY20090 33843334

0046FA 4570 B398            01398  6072+         BAL   R7,GETDADR              GET ASSOCIATED ADDRESS  @DY20090 33844034
0046FE 12FF                        6073+         LTR   RF,RF                   IS IT VALID             @DY20090 33844734
004700 4780 D6D6      04730        6074+         BZ    ECFRM035                NO, JUST RETRY          @DY20090 33845434

004704 B1FF 0000            00000  6076+         LRA   RF,D0(RF)               REAL ADDRESS            @DY20090 33846134
004708 BEF7 1001            00001  6077+         STCM  RF,M7,1(R1)             STORE IN CCW OR IDAW    @DY20090 33846834
00470C 9104 8004      00004        6078+         TM    CCWCHAIN,IDAL           IDAL USED               @DY20090 33847534
004710 4780 D700      0475A        6079+         BZ    ECFRM050                NO                      @DY20090 33848234

004714 4111 0004            00004  6081+         LA    R1,4(R1)                NEXT IDAW               @DY20090 33848934
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

004718 54F0 B6E0            016E0  6082+         N     RF,CLEARMSK             REMAINDER IN PAGE       @DY20090 33849634
00471C 4BF0 B6DC            016DC  6083+         SH    RF,H2048                SUBTRACT 2K             @DY20090 33850334
004720 13FF                        6084+         LCR   RF,RF                   SO MANY THIS PAGE       @DY20090 33851034
004722 19FC                        6085+         CR    RF,RC                   COMPARE WITH COUNT LEFT @DY20090 33851734
004724 47B0 D6E2      0473C        6086+         BNL   ECFRM040                BRANCH IF IDAL COMPLETE @DY20090 33852434

004728 1BCF                        6088+         SR    RC,RF                   NUMBER OF BYTES LEFT    @DY20090 33853134
00472A 1A5F                        6089+         AR    R5,RF                   NEW OFFSET              @DY20090 33853834
00472C 47F0 D69E      046F8        6090+         B     ECFRM030                AND AGAIN               @DY20090 33854534

004730 5810 2010            00010  6092+ECFRM035 L     R1,ERRQCCB              RESTORE CCB ADDRESS     @DY20090 33855234
004734 4111 0000            00000  6093+         LA    R1,D0(R1)               CLEAR HIGH ORDER BYTE   @DY20090 33855934
004738 47F0 D184      041DE        6094+         B     RETRY10                 GO NOW                  @DY20090 33856634

00473C 92FF 1000      00000        6096+ECFRM040 MVI   0(R1),XFF               IDAL DELIMITER          @DY20090 33857334
004740 4570 DA40            04A9A  6097+         BAL   R7,DSKIR010             GET CCW BLOCK ADDRESS   @DY20090 33858034
                            00000  6098+         USING IRSADR,RF               ADDRESSABILITY          @DY20090 33858734
004744 1814                        6099+         LR    R1,R4                   SAVE                    @DY20090 33859434
004746 4140 F042            00042  6100+         LA    R4,IRSCHAIN-(CHQIRSPT-CHQADR) R4 CORRECT        @DY20090 33860134
00474A 4570 DA40            04A9A  6101+         BAL   R7,DSKIR010             GET IRSBLOCK FOR IDAL   @DY20090 33860834
00474E 1841                        6102+         LR    R4,R1                   RESTORE R4              @DY20090 33861534

004750 D245 F000 DB06 00000 04B60  6104+         MVC   IRSBLOCK(IRSBLEN-2),DSKIDAL PERMANENT NOW       @DY20090 33862234
                                   6105+         DROP  RF                                              @DY20090 33862934
004756 BEF7 DAEF            04B49  6106+         STCM  RF,M7,ECFCCW4+D1        IDAL ADDRESS IN CCW     @DY20090 33863634
00475A 5810 2010            00010  6107+ECFRM050 L     R1,ERRQCCB              RESTORE CCB ADDRESS     @DY20090 33864334
00475E 4111 0000            00000  6108+         LA    R1,D0(R1)               CLEAR HIGH ORDER BYTE   @DY20090 33865034
004762 91C0 8004      00004        6109+         TM    CCWCHAIN,DC+CC          ANY CHAINING            @DY20090 33865734
004766 4770 D740      0479A        6110+         BNZ   ECFDOEND                YES, BUILD TIC CCW      @DY20090 33866434
00476A 955E DAFA      04B54        6111+         CLI   ECFIRSTP,RDMCKD         NOT FIRST ERROR         @DY20090 33866534
00476E 4780 D79A      047F4        6112+         BE    ECFDORMC                YES, KEEP OLD ADDRESS   @DY20090 33866634
004772 B170 8008            00008  6113+         LRA   R7,CCWNEXT              POSSIBLE CCBCSWW        @DY20090 33866734
004776 5070 DAFA            04B54  6114+         ST    R7,ECFCSWW              SAVE FOR IRS BLOCK      @DY20090 33866834
00477A 925E DAFA      04B54        6115+         MVI   ECFIRSTP,RDMCKD         TYPE INDICATOR          @DY20090 33866934
00477E 47F0 D79A      047F4        6116+         B     ECFDORMC                JUST COMPLETE RDMCKD    @DY20090 33867134


                            04782  6118+ECFEORCD EQU   *                                                     33910034
004782 5810 2010            00010  6119+         L     R1,ERRQCCB              RESTORE CCB ADDRESS     @DY20090 33920034
004786 4111 0000            00000  6120+         LA    R1,D0(R1)               CLEAR HIGH ORDER BYTE   @DY20090 33930034
00478A 9101 202B      0002B        6121+         TM    ERRQ+SNSXFLG,E3CTRUNC   IS IT CHANNEL TRUNC     @D34SDDK 33950034
00478E 4710 D808      04862        6122+         BO    ECFTRUNC                BRANCH IF YES                    33990034
004792 9140 8004      00004        6123+         TM    CCWCHAIN,CC             COMMAND CHAINING        @DY20090 34030034
004796 4780 D61E      04678        6124+         BZ    ECFCEDE                 BRANCH IF NO                     34070034
00479A 4180 8008            00008  6125+ECFDOEND LA    R8,CCWNEXT              STEP TO NEXT CCW        @DY20090 34110034
00479E 9107 8000      00000        6126+         TM    CCWCODE,X'0F'-TIC       POSSIBLE TIC            @DY20090 34130034
0047A2 4770 D764      047BE        6127+         BNZ   ECFNOTIC                NO                      @DY15773 34180034
0047A6 9108 8000      00000        6128+         TM    CCWCODE,TIC             IS IT A TIC             @DY20090 34210034
0047AA 4780 D764      047BE        6129+         BZ    ECFNOTIC                NO                      @DY15773 34240034
0047AE 5890 8000            00000  6130+         L     R9,CCWBUF               GET REAL TIC ARGUMENT   @DY20090 34390034
0047B2 4560 B18C            0118C  6131+         BAL   R6,VIRTAD               GO FIND IT' VIRT ADDR   @DL28754 34430034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0047B6 5890 070C            0070C  6132+         L     R9,AINTER              RESTORE BASE OF IOINTER @DL28754 34470034
0047BA 45E0 D854            048AE  6133+         BAL   RE,ADTST               CHECK FOR VALID ADDR    @DL28754 34510034
                            047BE  6134+ECFNOTIC EQU   *                                                34750034
                                   6135+*     BUILD CHANNEL PROGRAM TO RESTART USER                      34790034
0047BE 41F0 DAEE            04B48  6136+         LA    RF,ECFCCW4             POINT TO 4TH CCW        @DL28754 34830034
0047C2 955E DAEE      04B48       6137+         CLI   ECFCCW4,RDMCKD         CMD READ MULTIPLE CKD   @DY20090 34840034
0047C6 4780 D78A      047E4       6138+         BE    ECFNOMT                YES                     @DY20090 34850034
0047CA 9110 8000      00000       6139+         TM    CCWCODE,E3CTOP         COUNT OPERATION         @DY20090 34870034
0047CE 4710 D78E      047E8       6140+         BO    ECFCPEND               BRANCH IF YES                    34910034
0047D2 D207 DAEE DAFE 04B48 04B58 6141+         MVC   ECFCCW4,ECFRDCNT       BUILD RD COUNT CCW      @DY20759 34950034
0047D8 9180 8000      00000       6142+         TM    CCWCODE,MULTITRK       MULTI TRK OPERATION     @DY20090 34990034
0047DC 47E0 D78A      047E4       6143+         BNO   ECFNOMT                NO, RD COUNT IS O. K.   @DL29SOM 35030034
0047E0 9680 F000      00000       6144+         OI    D0(RF),MULTITRK        MAKE IT A MUL TRK RDCNT @DL29SOM 35070034
                            047E4  6145+ECFNOMT  EQU   *                                                @DL29SOM 35110034
0047E4 41F0 F008            00008  6146+         LA    RF,D8(,RF)             POINT TO NEXT CCW       @DL28754 35150034
                            047E8  6147+ECFCPEND EQU   *                                                35190034
0047E8 B180 8000            00000  6148+         LRA   R8,CCWTOT              GET REAL ADDR           @DY20090 35270034
0047EC 5080 F000            00000  6149+         ST    R8,D0(,RF)             BUILD TIC TO USER'S ... @DY20090 35350034
0047F0 9208 F000      00000       6150+         MVI   D0(RF),TIC             CHANNEL PROGRAM         @DL28754 35390034
0047F4 D204 DAC0 201C 04B1A 0001C 6151+ECFDORMC MVC   ECFSKADR+D2(L5),ERRQ+COUNTID SET SEEK ADDRESS   @DY20090 35430034
0047FA 4570 DA40            04A9A  6152+         BAL   R7,DSKIR010        GET IRS BLOCK OR ITS ADDRESS @DY20090 35460034
                            00000  6153+         USING IRSADR,RF          ADDRESSABILITY               @DY15773 35530034
0047FE D200 F046 DAFA 00046 04B54 6154+         MVC   IRSTYPE,ECFIRSTP   INDICATE PROPER TYPE         @DY20090 35535034
004804 9200 DAD3      04B2D       6155+         MVI   ECFSFM+D5,WHAWR0   CLEAN FILE MASK               @DY15773 35540034
004808 D237 F000 DAC6 00000 04B20 6156+         MVC   IRSECFSK(IRSEFLEN),ECFCCWS BUILD RESTART       @DY15773 35590034
00480E D206 F03F DABE 0003F 04B18 6157+         MVC   IRSLSKAD,ECFSKADR  *  CHANNEL PROGRAM          @DY15773 35600034
004814 D206 F038 F03F 00038 0003F 6158+         MVC   IRSPSKAD,IRSLSKAD  SEEK ADDRESS                @DY15773 35610034
00481A 4180 F038            00038  6159+         LA    R8,IRSPSKAD            *                       @DY15773 35620034
00481E BE87 F001            00001  6160+         STCM  R8,M7,IRSECFSK+D1      *                       @DY15773 35630034
004822 4180 F00D            0000D  6161+         LA    R8,IRSECSFM+D5         *                       @DY15773 35640034
004826 BE87 F009            00009  6162+         STCM  R8,M7,IRSECSFM+D1      *                       @DY15773 35650034
00482A 4180 F041            00041  6163+         LA    R8,IRSLSKAD+D2         *                       @DY15773 35660034
00482E BE87 F019            00019  6164+         STCM  R8,M7,IRSECSCH+D1      *                       @DY15773 35670034
004832 4180 F018            00018  6165+         LA    R8,IRSECSCH            *                       @DY15773 35680034
004836 BE87 F021            00021  6166+         STCM  R8,M7,IRSECT1+D1       *                       @DY15773 35690034
00483A 9568 3004      00004       6167+         CLI   PUBDEVTY,T3340         IS IT A 3340            @DY15826 35712034
00483E 4740 D862      048BC       6168+         BL    INITRG5                NO                      @DY15826 35714034
004842 956A 3004      00004       6169+         CLI   PUBDEVTY,T334070       IS IT REALLY A 3340     @DY15826 35716034
004846 4720 D862      048BC       6170+         BH    INITRG5                NO                      @DY15826 35718034
00484A D206 F038 DAAC 00038 04B06 6171+         MVC   IRSPSKAD,DSKSEEK       PHYS. SEEK @            @DY15826 35720034
004850 D503 F03A F041 0003A 00041 6172+         CLC   IRSPSKAD+D2(L4),IRSLSKAD+D2 GO TO ALTERNATE TRK @DY15773 35730034
004856 4780 D862      048BC       6173+         BE    INITRG5                NO                      @DY15773 35740034
00485A 9618 F00D      0000D       6174+         OI    IRSECSFM+D5,INHALLSK PREVENT ALL SEEKS         @DY15773 35750034
00485E 47F0 D862      048BC       6175+         B     INITRG5                TRY IT NOW              @DY15773 35760034


                            04862  6177+ECFTRUNC EQU   *                                                35910034
004862 9610 2014      00014       6178+         OI    ERRQSNS,EQUIPCHK         FORCE EQUIPMENT CHECK @D34SDDK 35950034
004866 47F0 D3B2      0440C       6179+         B     ERRLOG2                  LOG ERROR                     36030034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                           0486A  6182+ECFDCHN  EQU   *                                                          36350034
00486A 58F0 DAB2           04B0C  6183+         L     RF,ECFCOUNT           DECREMENT CLOCKED BYTES @DL28754 36390034
00486E 5BF0 DABA           04B14  6184+         S     RF,ECFCCWCT           BY CCW COUNT            @DL28754 36430034
004872 50F0 DAB2           04B0C  6185+         ST    RF,ECFCOUNT           STORE IT BACK           @DL28754 36470034
004876 5B50 DABA           04B14  6186+         S     R5,ECFCCWCT           DECREMENT FORWARD DISP  @DL28754 36510034
00487A 4180 8008           00008  6187+         LA    R8,CCWNEXT            STEP TO NEXT CCW        @DY20090 36550034
00487E 9107 8000      00000        6188+         TM    CCWCODE,X'0F'-TIC     POSSIBLE TIC            @DY20090 36570034
004882 4770 D844      0489E        6189+         BNZ   ECFNEWCT              NO                      @DY15773 36620034
004886 9108 8000      00000        6190+         TM    CCWCODE,TIC           IS IT A TIC             @DY20090 36650034
00488A 4780 D844      0489E        6191+         BZ    ECFNEWCT              NO                      @DY15773 36680034
00488E 5890 8000           00000  6192+         L     R9,CCWBUF             POINT TO REAL TIC ARGU  @DY20090 36830034
004892 4560 B18C           0118C  6193+         BAL   R6,VIRTAD             GO FIND IT'S VIRT ADDR  @DL28754 36870034
004896 5890 070C           0070C  6194+         L     R9,AINTER             RESET BASE FOR IOINTER  @DL28754 36910034
00489A 45E0 D854           048AE  6195+         BAL   RE,ADTST              CHECK FOR VALID ADDR    @DY15773 36950034
                           0489E  6196+ECFNEWCT  EQU   *                                                          @DL28754 37150034
00489E D201 DABC 8006 04B16 00006 6197+         MVC   ECFCCWCT+D2(L2),CCWLNG  GET COUNT FROM NEW CCW  @DY20090 37190034
0048A4 12CC                      6198+         LTR   RC,RC                 ECF BYTES USED UP?      @DY15773 37230034
0048A6 47D0 D5CC      04626      6199+         BNP   ECFEOSEG              YES, LOOP AND CLEAN UP  @DL28754 37270034
0048AA 47F0 D576      045D0      6200+         B     ECFLOOP               CONT ECF ON NEW SEGMENT @D34DDDK 37310034


                                 6202+*************************************************************** @D34DDDK 37470034
                                 6203+*                                                             * @D34DDDK 37510034
                                 6204+*        ADDRESS TEST ROUTINE                                 * @D34DDDK 37550034
                                 6205+*                                                             * @D34DDDK 37590034
                                 6206+*************************************************************** @D34DDDK 37630034

0048AE 188F                      6208+ADTST    LR    R8,RF                   PUT VIRT ADDR IN R8     @DL28754 37710034
0048B0 5860 086C           0086C 6209+         L     R6,DISPAD               RESTORE EXIT REGISTER   @DM05356 37750034
0048B4 12FF                      6210+ADTST1   LTR   RF,RF                   VALID ADDRESS CODE      @DL28754 37830034
0048B6 4780 D86A      048C4      6211+         BZ    RCVERR1                 NO, CANCEL USER         @DL28754 37870034
0048BA 07FE                      6212+         BR    RE                      YES, RETURN             @DL28754 37910034


                           048BC 6214+INITRG5  EQU   *                                                          @D34SDDK 38510034
0048BC 41F0 97B6           03690 6215+         LA    RF,INITRG               SET EXIT ADDRESS        @D34SDDK 38550034
0048C0 47F0 D8C4      0491E      6216+         B     DSKEXIT                 EXIT                    @D34SDDK 38590034

                                 6218+*                                 @DY15773 DID REMOVE CODE FOR @DY13041 38610034


0048C4 4570 0B20           00B20 6220+RCVERR1  BAL   R7,CQDSP                ASSURE CORRECT I/O REGISTERS @DY20090 38652134
0048C8 4111 0000           00000 6221+         LA    R1,D0(R1)               CLEAR HIGH ORDER BYTE        @DY20090 38652434
0048CC 9220 200B      0000B      6222+         MVI   ERRQMSG,RCVMSG          INDICATE ERROR ON RECOVERY   @DY13041 38653134


                                 6224+*************************************************************** @D34DDDK 38670034
                                 6225+*                                                             * @D34DDDK 38710034
                                 6226+*             EXTRAN ROUTINE                                  * @D34DDDK 38750034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   6227+*                                                              * @D34DDDK 38790034
                                   6228+************************************************************** @D34DDDK 38830034

                            048D0  6230+EXTRAN1  EQU   *                                                 @D34SDDK 38910034
0048D0 18F6                        6231+         LR    RF,R6              SET DISPATCHER EXIT           @D34SDDK 39030034
0048D2 1211                        6232+         LTR   R1,R1              CCB AVALABLE                  @D34SDDK 39070034
0048D4 4780 D8C4      0491E        6233+         BZ    DSKEXIT            NO, BRANCH                    @D34SDDK 39110034
                                   6234+*                                                                @DM15841 39110234
                                   6235+*        ASSUMPTIONS FOR MAINT:                                  @DM15841 39110434
                                   6236+*        1. THE "ACCEPT UNRECOVERABLE IO ERROR BIT" IS ON        @DM15841 39110634
                                   6237+*        2. DEVICE END WILL BE POSTED                            @DM15841 39110834
                                   6238+*                                                                @DM15841 39111034
0048D8 9102 0689      00689        6239+         TM    LCBYTE,FCHQ        IS SCIL UPDATE IN PROGRESS    @DM15841 39111234
0048DC 4780 D88E      048E8        6240+         BZ    EXTRAN2            NO, BRANCH TO HEADQUEUE TEST  @DM15841 39111434
0048E0 9110 1002      00002        6241+         TM    CCBCOM1,ACCUNRIO   ACCPT UNRCVRBL IO ERR BIT ON  @DM15841 39111634
0048E4 4710 D89E      048F8        6242+         BO    EXTRAN3            YES, MAINT IS SAME AS HEADQ   @DM15841 39111834
0048E8 4930 0690            00690  6243+EXTRAN2  CH    R3,YPUBTAB         IS THIS HEADQUEUE REQUEST     @D34SDDK 39150034
0048EC 47B0 D8C4      0491E        6244+         BNL   DSKEXIT            NO,  BRANCH                   @D34SDDK 39190034
0048F0 95E3 200B      0000B        6245+         CLI   ERRQMSG,RMSDERR2   HAVE TO DO LOGGING            @DY15773 39206034
0048F4 4780 D8C4      0491E        6246+         BE    DSKEXIT            YES, GO ON                    @DY15773 39211034
0048F8 41F0 922A            03104  6247+EXTRAN3  LA    RF,IGNORE          SET EXIT ADDRESS              @D34SDDK 39230034
0048FC 9509 4004      00004        6248+         CLI   REQID,CRT          IS THIS A CRT REQUEST         @D34SDDK 39230334
004900 4770 D8B4      0490E        6249+         BNE   EXTRAN4            NO, CONTINUE NORMAL           @D34SDDK 39230434
004904 58E0 B8A0            018A0  6250+         L     RE,ACRTSAV         POINT TO CRT SAVE AREAS       @D34SDDK 39230534
                            121F0  6251+         USING CRTSAV,RE          ASSURE ADDRESSABILITY         @D34SDDK 39230634
004908 D201 E18F 2014 1237F 00014  6252+         MVC   HCSNS(2),ERRQSNS   SAVE SENSE BYTES              @D34SDDK 39230734
                                   6253+         DROP  RE                                                @D34SDDK 39230834
                            0490E  6254+EXTRAN4  EQU   *                                                 @D34SDDK 39230934
00490E 960C 2004      00004        6255+         OI    ERRQCSW+4,CHANEND+DEVEND FORCE DEQUEUING         @D34SDDK 39270034
004912 9620 1002      00002        6256+         OI    CCBCOM1,DISERR          POST DISASTER ERROR      @D34SDDK 39310034
004916 47F0 D8C4      0491E        6257+         B     DSKEXIT                 EXIT                     @D34SDDK 39350034


00491A 41F0 922A            03104  6259+EXIGN2   LA    RF,IGNORE               SET EXIT ADDRESS         @D34SDDK 39710034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  6261+************************************************************ @D34DDDK 39790034
                                  6262+*                                                          * @D34DDDK 39830034
                                  6263+*              EXIT ROUTINE                                * @D34DDDK 39870034
                                  6264+*                                                          * @D34DDDK 39910034
                                  6265+************************************************************ @D34DDDK 39950034

00491E 5850 06F8          006F8   6267+DSKEXIT  L     R5,AERBLOC              POINT TO ERROR BLOCK    @D34SDDK 40030034
                          10260   6268+         USING ERBLOC,R5               ESTABLISH ADDRESSABILITY@D34SDDK 40070034
004922 5880 0794          00794   6269+         L     R8,ASYSBLKX             LOAD TSK CONTR BLK ADDR @D34SDDK 40110034
                          00000   6270+         USING SYSBLKS,R8              ESTABL ADDRESSABILITY   @D34SDDK 40150034
004926 5880 8004          00004   6271+         L     R8,SYSAVAR              LOAD DSK SAVEAREA ADDR  @D34SDDK 40190034
                          00000   6272+         USING SVEARA,R8               ESTABL ADDRESSABILITY   @D34SDDK 40230034
00492A 50D0 800C          0000C   6273+         ST    RD,SVEPSW2              RESTORE PSW ADDRESS     @D34SDDK 40270034
00492E 9200 073D    0073D         6274+         MVI   SELECT,ZERO             CLEAR SELECT BYTE       @D34SDDK 44650034
004932 9101 2036    00036         6275+         TM    ERRQFLG+L'ERRQ,OCCUP    IS NEXT ERR ENTR ACTIVE @D34SDDK 44700034
004936 4780 D8E4    0493E         6276+         BZ    DSKEX05                 NO, BRANCH              @DY15773 44750034
00493A 9283 B5D0    015D0         6277+         MVI   DSKFLG,READY            SET TASK IN READY STATE @D34SDDK 44800034
00493E D207 0040 51C8 00040 10428 6278+DSKEX05  MVC   CSW(8),ERQD1CSW          RESTORE CSW             @DY15773 44850034
004944 9120 2010    00010         6279+         TM    ERRQSFLG,DSKCNTDN       COUNTN TO BE REDUCED    @DY20398 44858034
004948 4780 D8F6    04950         6280+         BZ    DSKEX10                 NO                      @DY15773 44866034
00494C 4570 9AB8          03992   6281+         BAL   R7,INTGATDN             REDUCE ERROR COUNT      @DY15773 44874034
004950 946F 3006    00006         6282+DSKEX10  NI    PUBCSFLG,XFF-QEDERR-DEVBSY   RESET SCHED BITS   @DY15773 44882034
004954 19F6                       6283+         CR    RF,R6                   IS RECORDING REQUIRED   @D34SDDK 44900034
004956 4780 D938    04992         6284+         BE    DSKEX15           YES, GO PREPARE TO DO IT      @DY15773 44951434
00495A 49F0 5008          10268   6285+         CH    RF,YRETRY         GOING TO RETRY                @DY15773 44952134
00495E 4770 D9B0    04A0A         6286+         BNE   DSKEX50           NO, FORGET ERP E3 ENTRY       @DY15773 44952834

004962 95E3 52AF    1050F         6288+         CLI   ERQDRMSG,RMSDERR2 ERP ENVIRONMENTAL DATA        @DY15773 44954234
004966 4770 D9B0    04A0A         6289+         BNE   DSKEX50           NO, GO OUT                    @DY15773 44954934

00496A 4570 9B30          03A0A   6291+         BAL   R7,INTOBR         GET NORMAL ERROR QUEUE ENTRY  @DY15773 44956334
00496E 1222                       6292+         LTR   R2,R2             FREE ENTRY FOUND              @DY15773 44957034
004970 4780 D9B0    04A0A         6293+         BZ    DSKEX50           NO                            @DY15773 44957734

004974 9200 52AF    1050F         6295+         MVI   ERQDRMSG,ZERO     SET UNUSED                    @DY15773 44959134
004978 D217 51DC 52B8 1043C 10518 6296+         MVC   ERQD1SNS,ERQDRSNS USE THIS SENSE                @DY15773 44959834
00497E 92E3 51D3    10433         6297+         MVI   ERQD1MSG,RMSDERR2 SET TO 'E3'                    @DY15773 44960534
004982 4930 0690          00690   6298+         CH    R3,YPUBTAB        HEADQUEUE REQUEST             @DY15773 44961234
004986 4740 D966    049C0         6299+         BL    DSKEX25           YES, PROCEED                  @DY15773 44961934
00498A 92E2 51D3    10433         6300+         MVI   ERQD1MSG,RMSDERR  SOFT ERROR                    @DY15773 44962634
00498E 47F0 D978    049D2         6301+         B     DSKEX30           CONTINUE                      @DY15773 44963334

004992 947F 200C    0000C         6303+DSKEX15  NI    ERRQDFLG,XFF-ERRQSINV   RESET INV HOME ADR IND  @DY20398 44967534
004996 41F0 97B6          03690   6304+         LA    RF,INITRG               SET INITRG EXIT         @D34SDDK 44970034
00499A 4570 9B30          03A0A   6305+         BAL   R7,INTOBR               SEEK FREE ENTRY         @D34SDDK 45050034
00499E 1222                       6306+         LTR   R2,R2                   FREE ENTRY FOUND        @D34SDDK 45100034
0049A0 4770 D95E    049B8         6307+         BNZ   DSKEX20           YES                           @DY15773 45150034
0049A4 95E3 51D3    10433         6308+         CLI   ERQD1MSG,RMSDERR2 E3 TYPE ENTRY                 @DY15773 45162034
0049A8 4780 D9B0    04A0A         6309+         BE    DSKEX50           YES, FORGET RECORDING         @DY15773 45166034
0049AC 9690 3006    00006         6310+         OI    PUBCSFLG,QEDERR+DEVBSY SET SCHED BITS ON AGAIN  @DY15773 45174034
0049B0 41F0 0A24          00A24   6311+         LA    RF,ERR31          SET ERROR Q FULL EXIT         @DY15773 45178034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0049B4 47F0 D9B0      04A0A        6312+          B     DSKEX50             GET OUT                        @DY15773 45182034
                            049B8  6313+DSKEX20   EQU   *                                                  @DY15773 45186034
0049B8 95E3 51D3      10433        6314+          CLI   ERQD1MSG,RMSDERR2  E3 TYPE RECORDING              @DY15773 45198034
0049BC 4770 D978      049D2        6315+          BNE   DSKEX30             NO                             @DY15773 45202034
0049C0 D703 51D8 51D8 10438 10438  6316+DSKEX25   XC    ERQD1CCB,ERQD1CCB   CLEAR CCB ADDRESS              @DY15773 45206034
0049C6 4880 3008            00008  6317+          LH    R8,PUBPTR           ADDRESS OF NORMAL PUB          @DY15773 45210034
0049CA 4080 51D0            10430  6318+          STH   R8,ERQD1PUB         PUT IN ERR QUEUE ENTRY         @DY15773 45214034
0049CE 47F0 D97C      049D6        6319+          B     DSKEX35             CONTINUE                       @DY15773 45218034
0049D2 9690 3006      00006        6320+DSKEX30   OI    PUBCSFLG,QEDERR+DEVBSY  SET SCHED BITS ON AGAIN    @DY15773 45226034
                            049D6  6321+DSKEX35   EQU   *                                                  @DY15773 45230034
0049D6 95E3 52AF      1050F        6322+          CLI   ERQDRMSG,RMSDERR2  ASYNCHR RECORDING REQ          @DY15773 45242034
0049DA 4770 D9AA      04A04        6323+          BNE   DSKEX45             NO, JUST MOVE                  @DY15773 45246034
0049DE 95E2 51D3      10433        6324+          CLI   ERQD1MSG,RMSDERR    SOFT TYPE ERROR                @DY15773 45250034
0049E2 4740 D9AA      04A04        6325+          BL    DSKEX45             NO, JUST MOVE                  @DY15773 45254034

0049E6 1882                        6327+          LR    R8,R2               SAVE ENTRY ADDRESS             @DY15773 45262034
0049E8 4570 9B30            03A0A  6328+          BAL   R7,INTOBR           GET NORMAL ERROR QUEUE ENTRY   @DY15773 45266034
0049EC 1222                        6329+          LTR   R2,R2               FREE ENTRY FOUND               @DY15773 45270034
0049EE 4780 D9A8      04A02        6330+          BZ    DSKEX40             GO MOVE                        @DY15773 45274034

0049F2 D22B 2000 51C8 00000 10428  6332+          MVC   ERRQ,ERQD1          TAKE ORIGINAL TYPE             @DY15773 45282034
0049F8 D217 2014 52B8 00014 10518  6333+          MVC   ERRQSNS,ERQDRSNS     ENV DATA SENSE                 @DY15773 45286034
0049FE 92E3 51D3      10433        6334+          MVI   ERQD1MSG,RMSDERR2  SPECIAL SOFT ERROR             @DY15773 45290034

004A02 1828                        6336+DSKEX40   LR    R2,R8               ADDRESS ERQD1                  @DY15773 45298034
004A04 D22B 2000 51C8 00000 10428  6337+DSKEX45   MVC   ERRQ(L'ERRQ),ERQD1      FILL FREE ENTRY            @DY15773 45306034
004A0A D2AF 51C8 51F4 10428 10454  6338+DSKEX50   MVC   ERQD1(DSKMLNG),ERQD1+L'ERQD1 MOVE ENTRIES 1 UP     @DY15773 45310034
004A10 9200 5282      104E2        6339+          MVI   ERQDEND-L'ERRQ+10,ZERO  SET ENTRY FREE            @D34SDDK 45350034
004A14 D201 00BA 3000 000BA 00000  6340+          MVC   CHNADR,PUBCHANN       MOVE PUB CHANNEL ADDR      @D34SDDK 45400034
004A1A 59F0 070C            0070C  6341+          C     RF,AINTER             RETURN TO INTER-HANDLER    @D34SDDK 45450034
004A1E 4770 9AAA      03984        6342+          BNE   INTERTRN            NO, BRANCH                     @DY15773 45500034
004A22 9680 3006      00006        6343+          OI    PUBCSFLG,DEVBSY       SIM. CORRECT I/O INT.      @DY13100 45520034
004A26 47F0 9AAA      03984        6344+          B     INTERTRN              RETURN TO INTER HANDLER    @D34SDDK 45810034
                                   6345+          DROP  R5                                                 @D34SDDK 46200034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  6347+************************************************************ @D34DDDK 46300034
                                  6348+*                                                          * @D34DDDK 46350034
                                  6349+*              DISK I/O ROUTINE                            * @D34DDDK 46400034
                                  6350+*                                                          * @D34DDDK 46450034
                                  6351+************************************************************ @D34DDDK 46500034

004A2A 4110 DA9C            04AF6 6353+DSKIORTN LA    R1,DSKCCB              PREPARE R1 FOR I/O      @D34SDDK 46600034
004A2E 5050 1008            00008 6354+         ST    R5,CCBCCW              SET UP CCW ADDRESS      @D34SDDK 46650034
004A32 1853                       6355+         LR    R5,R3                  COPY PUB POINTER        @D34SDDK 46656034
004A34 4950 0690            00690 6356+         CH    R5,YPUBTAB             IS THIS A HEAD QUEUE    @D34SDDK 46662034
004A38 47B0 D9E6      04A40       6357+         BNL   NOHQREQ                NO                      @D34SDDK 46668034
004A3C 4850 3008            00008 6358+         LH    R5,PUBPTR              GET NORMAL PUB ADDRESS  @D34SDDK 46690034
004A40 4B50 0690            00690 6359+NOHQREQ  SH    R5,YPUBTAB             NORMAL PUB OFFSET       @D34SDDK 46720034
004A44 8850 0003            00003 6360+         SRL   R5,3                   NORMAL PUB ENTRY NUMBER @D34SDDK 46750034
004A48 4250 1007            00007 6361+         STC   R5,CCBLNO              STORE ENTRY NO IN CCB   @D34SDDK 46820034
004A4C 9608 1006      00006       6362+         OI    CCBCLS,CCBPHYAD        INDICATE PHYSICAL ADDR  @D34SDDK 46840034
                                  6363+* SUPERVISOR - SYSIO - 5745-SC-SUP - REL. 34.0                @D34SDAP 00500034
004A50 BF18 D9F6            04A50 6364+DSKIOAG  ICM   1,8,*                 INDICATE UNCONDITIONAL I/O @D34SDAP 01830034
004A54 0A0F                       6365+         SVC   15                     HEAD QUEUE I/O REQUEST  @D34SDAP 02050034
004A56 9180 1002      00002       6366+         TM    2(1),X'80'             HAS TRAFFIC BIT BEEN POSTED @D34SDAP 02300034
004A5A 4710 DA06      04A60       6367+         BO    *+6                    YES                     02400028
004A5E 0A07                       6368+         SVC   7                      NO, WAIT FOR I/O COMPLETE @D34SDAP 02500034
004A60 9120 1002      00002       6369+         TM    CCBCOM1,DISERR           DISASTER ERROR        @D34SDDK 46930034
004A64 5810 2010            00010 6370+         L     R1,ERRQCCB               RESTORE R1            @D34SDDK 47050034
004A68 4788 0004      00004       6371+         BZ    D4(R8)                   NO, RETURN TO CALLER  @DY20398 47100034

004A6C 9563 3004      00004       6373+         CLI   PUBDEVTY,T3330       2311/14/19                @DY15773 47103234
004A70 0748                       6374+         BLR   R8                   YES, ERROR RETURN         @DY20398 47104034
004A72 5950 06F8            006F8 6375+         C     R5,AERBLOC           FIRST TIME                @DY15773 47104834
004A76 0788                       6376+         BER   R8                   NO, ERROR                 @DY20398 47105634
004A78 5850 06F8            006F8 6377+         L     R5,AERBLOC           POINT TO ERROR BLOCK      @DY15773 47106434
                            10260 6378+         USING ERBLOC,R5            ADDRESSABILITY            @DY15773 47107234
004A7C 91E0 52B8      10518       6379+         TM    ERQDRSNS,COMREJ+INTVRQD+E3BOP                  @DY15773 47108034
004A80 0778                       6380+         BNZR  R8                   ERROR ON RECOVERY         @DY20398 47108834
004A82 9148 52B9      10519       6381+         TM    ERQDRSNS+D1,E3NRF+E3ITF                        @DY15773 47109634
004A86 0778                       6382+         BNZR  R8                   ERROR ON RECOVERY         @DY20398 47110434
004A88 9110 52BA      1051A       6383+         TM    ERQDRSNS+D2,E3EVD    ENVIRONMENTAL DATA PRESENT @DY15773 47111234
004A8C 0788                       6384+         BZR   R8                   NO, ERROR ON RECOVERY     @DY20398 47112034

004A8E 92E3 52AF      1050F       6386+         MVI   ERQDRMSG,RMSDERR2    SOFT ERROR (NO FLG RESET) @DY15773 47114434
004A92 4110 DA9C            04AF6 6387+         LA    R1,DSKCCB            ADDRESS OWN CCB           @DY15773 47115234
004A96 47F0 D9F6      04A50       6388+         B     DSKIOAG              RETRY ONCE                @DY15773 47116034
                                  6389+         DROP  R5                                             @DY15773 47116834
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  6391+************************************************************ @DY20090 47133834
                                  6392+*                                                            * @DY20090 47133934
                                  6393+*        GET IRS BLOCK, IF ALREADY QUEUED GET ITS ADDRESS    * @DY20090 47134034
                                  6394+*        IF NO BLOCK AVAILABLE: ERROR ON RECOVERY            * @DY20090 47134534
                                  6395+*                                                            * @DY20090 47134634
                                  6396+************************************************************ @DY20090 47134734

004A9A 48F0 3000          00000   6398+DSKIR010 LH    RF,PUBCHANN       PARAMETER CHNL/UNIT ADDRESS  @DY20090 47134934
004A9E 58D0 0884          00884   6399+         L     RD,IOSBASE        SGIOS BASE                   @DY20090 47135034
                          0D1B4   6400+         USING SGIOS,RD          ADDRESSABILITY               @DY20090 47135134
004AA2 45E0 D186          0D33A   6401+         BAL   RE,GETIRSBL       GET IRS BLOCK OR ITS ADDRESS @DY20090 47135634
004AA6 58D0 B58C          0158C   6402+         L     RD,ADISKERR       SGDSK BASE                   @DY20090 47136134
                          0405A   6403+         USING DISKERR,RD        ADDRESSABILITY               @DY20090 47136634
004AAA 95FF 4005    00005         6404+         CLI   CHQIRSPT,XFF      IRS BLOCK AVAILABLE          @DY20090 47137134
004AAE 4780 D86A    048C4         6405+         BE    RCVERR1           NO, CALL IT ERROR ON RECOVERY@DY20090 47137634
004AB2 07F7                       6406+         BR    R7                RETURN TO CALLER             @DY20090 47138134

                                  6408+************************************************************ @DY20398 47141634
                                  6409+*                                                            * @DY20398 47142634
                                  6410+*        BECAUSE OF POSSIBLE STRING SWITCH FEATURE ON 2314   * @DY20398 47143634
                                  6411+*        IT IS NECESSARY TO READ THE HA AND R0 AS SOON AS    * @DY20398 47144634
                                  6412+*        POSSIBLE TO PREVENT THAT THE ACCESS MECHANISM IS    * @DY20398 47145034
                                  6413+*        MOVED. WE ALSO SHOULD READ IT TO HAVE AN ACCURATE   * @DY20398 47145434
                                  6414+*        SEEK ADDRESS IN THE ERROR QUEUE ENTRY.              * @DY20398 47145834
                                  6415+*                                                            * @DY20398 47146634
                                  6416+************************************************************ @DY20398 47154634

004AB4 947F 9A53    0392D         6418+DSKOT010 NI    INTDSKF,XFF-WORKHA BE ABLE TO ACCEPT MORE WORK  @DY20398 47157634
004AB8 4170 0005          00005   6419+         LA    R7,NODSKEQE        NUMBER OF ENTRIES            @DY20398 47158634
004ABC 9101 200A    0000A         6420+DSKOT020 TM    ERRQFLG,OCCUP      IS THIS ENTRY ACTIVE         @DY20398 47159634
004AC0 4780 D000    0405A         6421+         BZ    DISKERR            NO, DONE                     @DY20398 47160634
004AC4 9140 200C    0000C         6422+         TM    ERRQDFLG,ERRQSNHA  NEED HA R0 FOR THIS ENTRY    @DY20398 47161634
004AC8 4710 DA7E    04AD8         6423+         BO    DSKOT050           YES, DO READ THEM            @DY20398 47162634
004ACC 4122 002C          0002C   6424+DSKOT030 LA    R2,ERQLNG(R2)      POINT TO NEXT ENTRY          @DY20398 47163634
004AD0 4670 DA62          04ABC   6425+         BCT   R7,DSKOT020        TRY NEXT ONE                 @DY20398 47164634
004AD4 47F0 D000    0405A         6426+         B     DISKERR            START ALL OVER               @DY20398 47165634
004AD8 4830 2008          00008   6427+DSKOT050 LH    R3,ERRQPUB         PUB ADDRESS                  @DY20398 47166634
004ADC 4150 DB5E          04BB8   6428+         LA    R5,EDCCWH1         CHANNEL PROGRAM TO EXECUTE   @DY20398 47167634
004AE0 4580 D9D0          04A2A   6429+         BAL   R8,DSKIORTN        EXECUTE READ HA AND READ R0  @DY20398 47168634
                                  6430+* RETURN +0 ON ERROR +4 IF NO I/O ERROR OCCURRED               @DY20398 47169634
004AE4 9680 200C    0000C         6431+         OI    ERRQDFLG,ERRQSINV  SEEK ADDRESS IS INVALID      @DY20398 47170634
004AE8 94BF 200C    0000C         6432+         NI    ERRQDFLG,XFF-ERRQSNHA DONE                      @DY20398 47171634
004AEC D603 200C DB9F 0000C 04BF9 6433+         OC    ERRQSEK,EDHA+D1    SAVE SEEK ADDRESS IN ENTRY   @DY20398 47172634
004AF2 47F0 DA72    04ACC         6434+         B     DSKOT030           CHECK NEXT ENTRY             @DY20398 47173634
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  6436+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                    07100028
004AF6 0000                       6437+DSKCCB   DC    XL2'0' .           RESIDUAL COUNT                      49000028
004AF8 1100                       6438+         DC    XL2'1100'   .        COMMUNICATIONS BYTES               50000028
004AFA 0000                       6439+         DC    XL2'0' .           CSW STATUS BYTES                    51000028
004AFC 00                         6440+         DC    AL1(0)      .          LOGICAL UNIT CLASS              52000028
004AFD 06                         6441+         DC    AL1(6)    .          LOGICAL UNIT                      53000028
004AFE 00                         6442+         DC    XL1'0'                                                 54000028
004AFF 004BB0                     6443+         DC    AL3(EDCCWH) .      CCW ADDRESS                         55000028
004B02 00                         6444+         DC    B'00000000'     .      STATUS BYTE                    56000028
004B03 000000                     6445+         DC    AL3(0) .           CSW CCW ADDRESS                     57000028


004B06 000000000000               6447+DSKSEEK  DC    XL6'00'                SEEK FIELD FOR READHA   @D34DDDK 47270034
                                  6448+*                                                                     47350034
004B0C 00000000                   6449+ECFCOUNT DC    F'0'                   TOTAL BYTES CLOCKED             47400034
004B10 00000000                   6450+ECFDISP  DC    F'0'                   BACKWARD DISPLACEMENT           47450034
004B14 00000000                   6451+ECFCCWCT DC    F'0'                   CCW COUNT                       47500034
004B18 0000000000000000           6452+ECFSKADR DC    D'0'                   RESTART SEEK ARGUMENT           47550034
004B20 07004B1840000006           6453+ECFCCWS  CCW   SEEK,ECFSKADR,CC,L6     SEEK                    @DY15773 47650034
004B28 1F004B2D60000001           6454+ECFSFM   CCW   SFM,ECFSFM+D5,CC+SLI,L1 SET FILE MASK              @DY15773 47680034
004B30 1A004B1870000005           6455+         CCW   RDHOM,ECFSKADR,CC+SKIP+SLI,L5 READ HA (SKIP)     @DY15773 47710034
004B38 31004B1A40000005           6456+         CCW   SEARCH,ECFSKADR+D2,CC,L5 SEARCH ID EQUAL         @DY15773 47740034
004B40 08004B3800000001           6457+         CCW   TIC,*-8,0,L1           TIC BACK                  @DY15773 47770034
004B48 0000000000000000           6458+ECFCCW4  CCW   0,0,0,0                READCOUNT/TIC/RDMCKD      @DY20759 47800034
004B50 08004B5000000000           6459+         CCW   TIC,*,0,0              TIC TO USER OR UNUSED     @DY15773 47830034
004B58                      04B54 6460+         ORG   *-4                                              @DY20090 47840034
004B54                            6461+ECFIRSTP DC    0XL1'00'               TEMPORARY TYPE IND.       @DY20090 47850034
004B54 00000000                   6462+ECFCSWW  DC    F'0'                   RELATED CCW ADDRESS       @DY20090 47860034
004B58 1200000070000005           6463+ECFRDCNT CCW   E3RDCT,0,CC+SKIP+SLI,L5 READCOUNT COMMAND         @DY20759 47870034
004B60 0000000000000000           6464+DSKIDAL  DC    XL72'00'               WORK AREA TO BUILD IDAL   @DY20090 47880034


004BA8 13004BF820000001           6466+EDCCWR   CCW   RECAL,EDHA,SLI,L1       RECALIBRATE CCW           @D34SDDK 48100034

004BB0 07004B0640000006           6468+EDCCWH   CCW   SEEK,DSKSEEK,CC,L6      SEEK                      @D34DDDK 48170034
004BB8 1A004BF860000005           6469+EDCCWH1  CCW   RDHOM,EDHA,CC+SLI,L5    CCW TO READ HA            @DY20398 48200034
004BC0 16004C0020000004           6470+         CCW   READR0,EDR0,SLI,L4      CCW TO READ R0            @D34SDDK 48250034

004BC8 07004BFE40000006           6472+EDCCWS   CCW   SEEK,EDSA,CC,L6         SEEK                      @D34SDDK 48350034
004BD0 39004C0060000004           6473+EDSRCH   CCW   SEARCHA,EDR0,CC+SLI,L4  SEARCH                    @D34SDDK 48400034
004BD8 08004BD000000000           6474+         CCW   TIC,EDSRCH,R0,R0        TIC                       @D34SDDK 48450034

004BE0 1F004BE560000001           6476+EDCCWF   CCW   SFM,EDCCWF+D5,CC+SLI,L1 SET MASK FOR FILE PROT    @D34SDDK 48550034
004BE8 1A004BF850000005           6477+         CCW   RDHOM,EDHA,CC+SKIP,L5   READ HA AND SKIP          @D34SDDK 48600034
004BF0 08004BF000000000           6478+EDCCWT   CCW   TIC,EDCCWT,R0,R0        TIC TO USER CHAIN         @D34SDDK 48650034


004BF8 0000000000                 6480+EDHA     DC    XL5'00'           READIN AREA FOR HOME ADDRESS @DY15773 48712034
004BFD 00                         6481+         DC    X'00'             ALIGNMENT                    @DY15773 48717034
004BFE 0000                       6482+EDSA     DC    H'0'              BBCCHH FOR ERP               @DY15773 48722034
004C00 00000000                   6483+EDR0     DC    2H'0'             R0 FOR ERP                   @DY15773 48727034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           04C03  6484+HEAD     EQU   EDR0+3            HEAD NUMBER                  @DY15773 48732034
004C04 0000                       6485+DSKUSRSK DC    H'0'              CC FROM USERS SEEK ARGUMENT  @DY20398 48734034

                           00000  6487+         USING   SVEARA,R8           SET UP ADDRESSABILITY   @DM11632 48800034
                                  6488+         DROP  R4                   DROP CHANNELQ BASE      @DM16008 48820034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

004C08                            6490+         DS    0D .              FORCE ALIGNEMENT                   PF 42257734
                          04C08  6491+CRTTRNS  EQU   * .               BEGINNING OF CRT TRANSIENT AREA    AS 42266034
004C08 5B5BC2D6C3D9E340           6492+         DC    C'$$BOCRT ' .     NAME OF CRT PHASE IN USE           AS 42266134
004C10 3400                       6493+         DC    X'3400' .         VERSION, MODIFICATION        @D34EDAP 42266234
                          04C12  6494+CRTABGN  EQU   * .               ENTRY OF CRT PHASE                 AS 42266334
                          0000A  6495+CRTDSP1  EQU   *-CRTTRNS .       DISPLACEMENT OF ENTRY POINT        AS 42266434
004C12 00000000                   6496+         DC    XL4'0' .          NOT USED                           AP 42266534
                          04C16  6497+CRTENTRY EQU   * .               ENTRY OF CRT ROOT PHASE            AS 42266634
                          0000E  6498+CRTDSP2  EQU   *-CRTTRNS .       DISPLACEMENT OF 2. ENTRY           AS 42266734
004C16                    05088  6499+         ORG   CRTTRNS+1152      END OF C-TRANSIENT AREA      @DY20180 42266834
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           05088  6501+LTA      EQU   * .                BEGINNING OF LOGICAL TRANSIENT AREA   42267634
                                  6502+*************************************************************************** 42267734
                                  6503+*                                                                         * 42267834
                                  6504+*       THE FOLLOWING BLOCK OF TEMPORARY CODE IN THE LTA IS EXECUTED      * 42267934
                                  6505+*       ONLY ONCE,AT FIRST ENTRY TO THE FETCH ROUTINE,AT IPL TIME.        * 42268034
                                  6506+*       ITS FUNCTION IS TO INITIALIZE ONE OR MORE CONSTANTS               * 42268134
                                  6507+*       DEPENDENT ON WHETHER THE SYSTEM RESIDENCE DEVICE IS               * 42268234
                                  6508+*       A 2314, A 2319, A 3330, A 3340, OR A 3350                @D34DDAP 42268334
                                  6509+*                                                                         * 42268434
                                  6510+*************************************************************************** 42268534

                           05088  6512+         USING *,R8 .              ADDRESSABILITY FOR TEMPORARY LTA CODE 42268734
                           060E8  6513+         USING FETCH,R6            R6 IS FETCH BASE REGISTER    @DL29ZCF 42268834
005088 D205 6098 80C8 06180 05150  6514+         MVC   BONCE(L6),MVCSTART  OVERRIDE LINKAGE IN FETCH ROUTINE     42268934
00508E 5830 0704           00704  6515+         L     R3,PUBRES .         GET ADDRESS OF SYSRES PUB             42269034
                           00000  6516+         USING PUBADR,R3 .         ADDRESSABILITY FOR PUB DSECT       EM 42269134
005092 5870 07E8           007E8  6517+         L     R7,AFTTAB           POINT TO FETCH TABLE         @DL29ZCJ 42269234
                           00000  6518+         USING FTENTRY,R7          ADDRESSABILITY TO FTTAB ENTRY@DL29ZCJ 42269334
005096 5820 80D8           05160  6519+         L     R2,TAB3330          PICK UP 3330 VALUES          @DL29ZCJ 42269434
00509A 9563 3004      00004        6520+         CLI   PUBDEVTY,T3330      IS SYSRES A 3330?            @DL29ZCJ 42269534
00509E 4780 8046      050CE        6521+         BE    SETSLD              YES, BRANCH                  @DL29ZCJ 42269634
0050A2 9565 3004      00004        6522+         CLI   PUBDEVTY,T3330B     IS SYSRES A 3330M11          @D34DDKS 42269734
0050A6 4780 8046      050CE        6523+         BE    SETSLD              YES, BRANCH                  @D34DDAP 42269834
0050AA 5820 80DC           05164  6524+         L     R2,TAB2314          PICK UP 2314 VALUES          @DL29ZCJ 42269934
0050AE 9562 3004      00004        6525+         CLI   PUBDEVTY,T2314      IS SYSRES A 2314?            @DL29ZCJ 42270034
0050B2 4780 8046      050CE        6526+         BE    SETSLD              YES, BRANCH                  @DL29ZCJ 42270134
0050B6 5820 80D0           05158  6527+         L     R2,TAB3350          PICK UP 3350 VALUES          @D34DDAP 42270234
0050BA 9567 3004      00004        6528+         CLI   PUBDEVTY,T3350      IS SYSRES A 3350             @D34DDAP 42270334
0050BE 4780 8046      050CE        6529+         BE    SETSLD              YES BRANCH                   @D34DDAP 42270434
0050C2 9568 3004      00004        6530+         CLI   PUBDEVTY,T3340      IS SYSRES A 3340             @D34DDVB 42270534
0050C6 4770 0B14      00B14        6531+         BNE   FTCHIOER            NO - HARDWAIT                @D34DDVB 42270634
0050CA 5820 80D4           0515C  6532+         L     R2,TAB3340          PICK UP 3340 VALUES          @DL29ZCJ 42270734
0050CE BE2F 7004           00004  6533+SETSLD    STCM  R2,M15,TCDIR        SET TR/CYL, BLKS/TR IN FTTAB @DL29ZCJ 42270834
0050D2 4120 80E0           05168  6534+         LA    R2,SEEKSLD          SET CCW LIST FOR             @DL29ZCJ 42270934
0050D6 5020 B6BC           016BC  6535+         ST    R2,TXTCCBSK         SLD BUILD OPERATION          @DL29ZCJ 42271034
0050DA BF47 7001           00001  6536+         ICM   R4,M7,SLDDIR        POINT TO SYSTEM SLD          @DL29ZCJ 42271134
0050DE 4824 0000           00000  6537+         LH    R2,D0(R4)           GET NUMBER OF SLD ENTRIES    @DL29ZCJ 42271234
0050E2 4144 0002           00002  6538+         LA    R4,D2(R4)           POINT TO FIRST SLD ENTRY     @DL29ZCJ 42271334
0050E6 BF5F 700A           0000A  6539+         ICM   R5,M15,CATALDIR+2   GET DIRECTORY START ADDR      @DL29ZCJ 42271434
0050EA 1871                       6540+         LR    R7,R1               SAVE R1                      @DL29ZCJ 42271534
0050EC 4620 8084           0510C  6541+SLDLOOP   BCT   R2,SLDLOOP1         CONTINUE IF NOT LAST ENTRY   @DL29ZCJ 42271634
0050F0 92FF 4000      00000        6542+         MVI   D0(R4),XFF          MOVE IN END-OF-LIST INDICATOR@DL29ZCJ 42271734
0050F4 D206 4001 4000 00001 00000  6543+         MVC   D1(L7,R4),D0(R4)    FOR LAST SLD ENTRY           @DL29ZCJ 42271834
0050FA 4120 B760           01760  6544+SLDDONE   LA    R2,SEEKCCW          RESTORE ORIGINAL             @DL29ZCJ 42271934
0050FE 5020 B6BC           016BC  6545+         ST    R2,TXTCCBSK         CCW LIST POINTER             @DL29ZCJ 42272034
005102 1817                       6546+         LR    R1,R7               RESTORE R1                   @DL29ZCJ 42272134
005104 5820 0708           00708  6547+         L     R2,AFETCH           ADDRESS FETCH ROUTINE        @DL29ZCF 42272234
                           060E8  6548+         USING FETCH,R2                                         @DL29ZCF 42272334
005108 47F0 6098      06180        6549+         B     BONCE .             EXECUTE REQUESTED FETCH                42272434
                                  6550+         DROP  R2                                               @DL29ZCF 42272534
00510C BE5F B6CE           016CE  6551+SLDLOOP1 STCM  R5,M15,CCHHR         SET SEEK, SEARCH ADDR        @DL29ZCJ 42272634
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

005110 BE47 80E9            05171  6552+         STCM  R4,M7,SLDREAD+1    SET READ ADDR FOR KEY VALUE  @DL29ZCJ 42272734
005114 4110 B6B4            016B4  6553+         LA    R1,TXTCCB          POINT TO CCB FOR EXCP        @DL29ZCJ 42272834
                                   6554+* SUPVR COMMN MACRO - EXCP - 5745-SC-SUP - REL. 31.0                    15050031
005118 0A00                        6555+         SVC   0                                                EM 75020028
                                   6556+* SUPERVISOR - WAIT - 5745-SC-SUP - REL. 28.0                           12000028
00511A 9180 1002      00002        6557+         TM    2(1),X'80'                                           48000025
00511E 4710 809C      05124        6558+         BO    *+6                                                  57000025
005122 0A07                        6559+         SVC   7                                                    60000025
005124 95FF 4000      00000        6560+SLDCOMP  CLI   D0(R4),XFF           CHECK FOR DIRECTORY END      @DL29ZCJ 42273134
005128 4780 8072      050FA        6561+         BE    SLDDONE            YES, BRANCH                  @DL29ZCJ 42273234
00512C 4144 0008            00008  6562+         LA    R4,D8(R4)          POINT TO NEXT SLD ENTRY      @DL29ZCJ 42273334
005130 BF5F B6CE            016CE  6563+         ICM   R5,M15,CCHHR       INCREMENT                    @DL29ZCJ 42273434
005134 4150 5001            00001  6564+         LA    R5,D1(,R5)         HEAD ADDRESS                 @D34SDKS 42273534
005138 9120 B6B7      016B7        6565+         TM    TXTCCB+3,EOC       TEST FOR END OF CYLINDER     @DL29ZCJ 42273634
00513C 4780 8064      050EC        6566+         BZ    SLDLOOP            NO, BRANCH                   @DL29ZCJ 42273734
005140 8A50 0010            00010  6567+         SRA   R5,L16             POSITION TO CYLINDER VALUE   @DL29ZCJ 42273834
005144 4155 0001            00001  6568+         LA    R5,D1(R5)          INCREMENT CYLINDER VALUE     @DL29ZCJ 42273934
005148 8B50 0010            00010  6569+         SLA   R5,L16             CLEAR HEAD VALUE             @DL29ZCJ 42274034
00514C 47F0 8064      050EC        6570+         B     SLDLOOP            CONTINUE                     @DL29ZCJ 42274134

                            00000  6572+         USING SVEARA,R9          ADDRESSABILITY FOR MVC       @DL29ZCJ 42274334
005150 D207 905C 1000 0005C 00000  6573+MVCSTART MVC   CALLSEQ,0(R1) .    INSTR WILL BE MOVED TO FETCH @DL29ZCJ 42274434
                                   6574+         DROP  R9                                               @DL29ZCJ 42274534

                                   6576+*                                                               @DL29ZCJ 42274734
                                   6577+*        THE FOLLOWING TABLE ENTRIES ARE USED TO INITIALIZE     @DL29ZCJ 42274834
                                   6578+*        THE TCDIR(TRACKS/CYLINDER) AND BTDIR(BLOCKS/TRACK)     @DL29ZCJ 42274934
                                   6579+*        FIELDS IN THE SYSTEM FETCH TABLE(FTTAB).               @DL29ZCJ 42275034
                                   6580+*                                                               @DL29ZCJ 42275134
005158                             6581+TAB3350  DS    0F                 ENTRY FOR 3350               @D34DDAP 42275234
005158 001E                        6582+         DC    H'30'              TRACKS/CYLINDER              @D34DDAP 42275334
00515A 000F                        6583+         DC    H'15'              LIBRARY(1K) BLOCKS/TRACK     @D34DDAP 42275434
00515C                             6584+TAB3340  DS    0F                 ENTRY FOR 3340               @DL29ZCJ 42275534
00515C 000C                        6585+         DC    H'12'              TRACKS/CYLINDER              @DL29ZCJ 42275634
00515E 0007                        6586+         DC    H'7'               LIBRARY(1K) BLOCKS/TRACK     @DL29ZCJ 42275734
005160                             6587+TAB3330  DS    0F                 ENTRY FOR 3330               @DL29ZCJ 42275834
005160 0013                        6588+         DC    H'19'              TRACKS/CYLINDER              @DL29ZCJ 42275934
005162 000B                        6589+         DC    H'11'              LIBRARY(1K) BLOCKS/TRACK     @DL29ZCJ 42276034
005164                             6590+TAB2314  DS    0F                 ENTRY FOR 2314               @DL29ZCJ 42276134
005164 0014                        6591+         DC    H'20'              TRACKS/CYLINDER              @DL29ZCJ 42276234
005166 0006                        6592+         DC    H'06'              LIBRARY(1K) BLOCKS/TRACK     @DL29ZCJ 42276334

                                   6594+*                                                               @DL29ZCJ 42276534
                                   6595+*        THE FOLLOWING CHANNEL PROGRAM READS THE LAST KEY ON    @DL29ZCJ 42276634
                                   6596+*        A TRACK INTO THE SPECIFIED AREA.  IT IS USED TO SET    @DL29ZCJ 42276734
                                   6597+*        UP THE SYSTEM SECOND LEVEL DIRECTORY.                  @DL29ZCJ 42276834
                                   6598+*                                                               @DL29ZCJ 42276934
005168 070016CC40000006            6599+SEEKSLD  CCW   SEEK,BBCCHHR,CC,L6 SEEK DIRECTORY TRACK        @DL29ZCJ 42277034
005170 0E00000060000008            6600+SLDREAD  CCW   RDKYDATA,ZERO,CC+SLI,L8 READ KEY                @DL29ZCJ 42277134
005178 B10016CE60000004            6601+         CCW   SEARCHMT,CCHHR,CC+SLI,L4 MAY SKIP TO NEXT TRACK @DL29ZCJ 42277234
005180 0300000000000001            6602+         CCW   NOP,R0,R0,L1       NORMAL END, AFTER TRK SWITCH @DL29ZCJ 42277334
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
005188 0800517000000000            6603+         CCW   TIC,SLDREAD,R0,R0  CONTINUE UNTIL LAST RECORD   @DL29ZCJ 42277434
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

005190                      05600  6606+         ORG   LTA+1400           LTA LENGTH IS 1400 BYTES     @DM15326 42277734
005600 0000000000000000             6607+STRING   DC    3D'0' .            FIRST CCW'S FOR FETCH        @DL29ZCJ 42277834
                                    6608+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 42277934
                                    6609+*        THE FOLLOWING CODE GENERATES STORAGE FOR THE INDEPENDENT     * 42278034
                                    6610+*        READ-IN AREA (IDRA) AND THE PHYSICAL TRANSIENT AREA (PTA).   * 42278634
                                    6611+*        THE SYMBOLS 'DIRBUF' AND 'DIRBUFE' BOUND THE FETCH READ-IN   * 42279234
                                    6612+*        AREA.  IF IDRA=NO, THE PTA IS USED BY FETCH.  IF IDRA=YES,   * 42279834
                                    6613+*        AN IDRA AREA FOR FETCH IS GENERATED, WITH A LENGTH OF 256    * 42280434
                                    6614+*        BYTES IF RELLDR=NO, OR 1024 BYTES IF RELLDR=YES.             * 42281034
                                    6615+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 42281634
                            05618   6616+DIRBUF   EQU   *                    START OF FETCH READ-IN AREA  @DL29ZCJ 42282234
005618                              6617+IDRA     DS    1XL(256+1*(1024-256))            IDRA AREA     @DL29ZCJ 42282834
                            05A17   6618+DIRBUFE  EQU   *+(1-1)*1024-1      END OF FETCH READ-IN AREA    @DL29ZCJ 42283434
005A18                              6619+PTA      DS    XL1024             PHYSICAL TRANSIENT AREA      @DL29ZCJ 42284034
                                    6620+*                                                            @D348DEM 00006534
                                    6621+*        SUPERVISOR - DISP - 5745-SC-SUP - REL. 34.1         @DY15747 00007034
                                    6622+*                                                            @D348DEM 00007434
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  6624+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 00105433
                                  6625+*                                                                               * 00155433
                                  6626+*        EXIT FROM THE SUPERVISOR. THE NEXT TASK READY TO RUN IS                * 00205433
                                  6627+*        SELECTED FOR PROCESSING.                                               * 00255433
                                  6628+*                                                                               * 00305433
                                  6629+*        REGISTER USAGE :                                                       * 00355433
                                  6630+*          REG 6 BASE REGISTER, MUST POINT TO LABEL DISP                        * 00405433
                                  6631+*          REG 11 SUPVR BASE REGISTER FOR CONSTANTS                             * 00455434
                                  6632+*                                                                               * 00505433
                                  6633+*        EXIT :                                                                 * 00555433
                                  6634+*          VIA LPSW TO                                                          * 00605433
                                  6635+*            SYSTEM TASK ROUTINES                                               * 00655433
                                  6636+*            USER TASK ROUTINES                                                 * 00705433
                                  6637+*          VIA BRANCH TO ;                                                      * 00755433
                                  6638+*            CNCLEXIT                                                           * 00805433
                                  6639+*            SUPVR SERVICE ROUUTINES                                            * 00855433
                                  6640+*                                                                               * 00905433
                                  6641+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 00955433

                           05E18  6643+DISP     EQU   *                                                                 01055433
                           05E18  6644+         USING DISP,R6                                                           01105433
                           00000  6645+         USING SYSS00,R0,RB       ESTAB.LOW CORE ADDRESSABILITY@D34RDFG           01155434
                           00000  6646+         USING SVEARA,R8 .        SAVE AREA BASE POINTER                         01205433
                           00000  6647+         USING PIBADR,RA .        PIB BASE POINTER                               01255433
005E18 9200 087F      0087F      6648+         MVI   RID+D1,SYSTEMID .  IDENTIFY ALL-BOUND PROCESSING      FR 01305433
005E1C 9500 07C7      007C7      6649+         CLI   APNO+D1,ZERO       ANY VIRT.PART.ACTIVE          @DM03306 01405433
005E20 4780 61AC      05FC4      6650+         BE    EXCONT             NO,CHECK IF REACT.NECESSARY   @DM03306 01455433
                           05E24  6651+EXCONT1  EQU   *                  CONTINUE DISPATCHING          @DM03306 01505433
                           05E25  6652+ENABEXIT EQU   *+1 .              FOLLOWING INSTR.WILL BE MODIFIED   FR 01605433
005E24 AD00 B65C      0165C      6653+         STOSM PSWMASK,M0 .       AFTER IPL TO                       FR 01655433
                                 6654+*        STOSM PSWMASK,ENABLE .   ENABLE INTERRUPTS                  FR 01705433
005E28 9500 073D      0073D      6655+         CLI   SELECT,ZERO .      ANY SYSTEM TASK DISPATCHABLE          01755433
005E2C 4770 6214      0602C      6656+         BNE   SYSRTRN .          YES, DISPATCH A SYSTEM TASK        FR 01805433
005E30 D210 B5DE B5FE 015DE 015FE 6657+         MVC   TRFLD,MVCFLD .     MOVE KEYS TO WORKFIELD             FR 01855433
005E36 4890 06AA            006AA 6658+         LH    R9,YPIBTAB .       POINT TO AR PIB                       01905433
005E3A DC10 B5DE 9000 015DE 00000 6659+         TR    TRFLD,D0(R9) .     INSERT PIB FLAGS                   FR 01955433
005E40 DD1F B5CF 08E6 015CF 008E6 6660+         TRT   TRTFLD,RETAB .     SCAN PIBFLAGS                      FR 02005433
005E46 4780 610C      05F24      6661+         BZ    ALLBND .           BRANCH IF NOBODY READY TO RUN         02055433
005E4A 1BAA                      6662+         SR    RA,RA .            CLEAR PIB- OR SYSTEM TASK BLOCK PTR   02105433
005E4C ACFC B65C      0165C      6663+         STNSM PSWMASK,DISABLE .  DISABLE INTERRUPTS                 FR 02305433
005E50 43A1 0020            00020 6664+         IC    RA,L'TRTFLD(R1) .  GET KEY OF SELECTED TASK              02355433
005E54 42A0 073D            0073D 6665+         STC   RA,SELECT .        SETUP SELECT BYTE                  FR 02405433
005E58 940F 073D      0073D      6666+         NI    SELECT,X'FF'-USERIDS CLEAR ANY USER TASK ID             FR 02455433
005E5C 4770 61E4      05FFC      6667+         BNZ   SYSEXIT            ACTIVATE SYSTEM TASK,WHEN SELECTED FR 02505433
005E60 9500 087D      0087D      6668+         CLI   SYSSZ+D1,ZERO      SYSTEM SEIZED BY SYSTEM TASK @DY15747 02605434
005E64 4770 610C      05F24      6669+         BNE   ALLBND             YES, DO NOT SELECT USER TASK @DY15747 02655434
005E68 40A0 0752            00752 6670+         STH   RA,TIK             SET UP THE PIK/TIK            @D349DEM 02755434
005E6C 4AA0 06CC            006CC 6671+         AH    RA,YPIB2TAB .      POINT TO PIB EXTENSION                02855433
005E70 D200 067F A00D 0067F 0000D 6672+         MVC   PIK+1(L1),PIBPIK+1 SET UP THE PIK                     AP 02955433
005E76 BF93 A000            00000 6673+         ICM   R9,M3,PIBCOMRA .   GET PARTITION COMREG ADDRESS(16 BITS) 03055433
005E7A 4090 0016            00016 6674+         STH   R9,CRADDR+2 .      AND STORE IT IN LOW CORE           191 03105433
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

005E7E 4880 067E            0067E  6675+         LH    R8,PIK             CALCULATE ADDRESS OF         @D34UDFR 03115434
005E82 8880 0002            00002  6676+         SRL   R8,D2              PARTITION CONTROL BLOCK      @D34UDFR 03125434
005E86 5888 62B8            060D0  6677+         L     R8,PCBATAB(R8)     AND                          @D34UDFR 03135434
005E8A 5080 0834            00834  6678+         ST    R8,PCBPTR          STORE IT TO LOW-CORE         @D34UDFR 03145434
005E8E 41AA 0100            00100  6679+         LA    RA,PIBTAB-PIB2TAB(RA) SET UP PIB POINTER                 03155433
                            05E92  6680+NOSELECT EQU   *                                                   FR 03205433
005E92 9283 A000      00000       6681+SAMETASK MVI   PIBFLG,READY .     RESET ANY OTHER CODE TO READY      FR 03405433
005E96 5880 A004            00004  6682+         L     R8,PIBSAVE .       GET SAVE AREA ADDRESS        @DM02371 03455433
005E9A 1288                        6683+         LTR   R8,R8 .          INITIAL SELECTION OF ATTENTION? @DM02371 03505433
005E9C 4780 B334      01334       6684+         BZ    ATNRTN .           YES,BRANCH                   @DM02371 03555433
005EA0 917F A004      00004       6685+         TM    PIBDATFL,PSERTN .  ANY PMGR ROUTINE CALLED ?          FR 03605433
005EA4 4770 624A      06062       6686+SEIZEXIT BNZ   DATEXIT .          YES,EXECUTE THIS ROUTINE           FR 03655433
005EA8 9108 A00F      0000F       6687+SEIZRTRN TM    PIBFLG2,FETCHEOJ . CANCEL OR EOJ TO BE CALLED?           03705433
005EAC 4710 0E18      00E18       6688+         BO    CNCLEXIT .         YES,BRANCH                         FR 03755433
                            05EB0  6689+VSMDELAY EQU   *                                                 @DA08344 03775433
005EB0 5880 A004            00004  6690+         L     R8,PIBSAVE .       GET SAVE AREA ADDRESS              FR 04755433
005EB4 4570 0DB2            00DB2  6691+         BAL   R7,JAXIT .         GO TO SET COUNTERS FOR JOB ACCT.   JB 04855433
005EB8 9214 087F      0087F       6692+         MVI   RID+D1,DISPID .    IDENTIFY PAGE FAULT IN EXIT        FR 04955433
005EBC 6800 8058            00058  6693+         LD    FPR0,SVEFP0 .      RESTORE FP REGISTER 0              JK 05055433
005EC0 6820 8060            00060  6694+         LD    FPR2,SVEFP2 .      RESTORE FP REGISTER 2              JK 05105433
005EC4 6840 8068            00068  6695+         LD    FPR4,SVEFP4 .      RESTORE FP REGISTER 4              JK 05155433
005EC8 6860 8070            00070  6696+         LD    FPR6,SVEFP6 .      RESTORE FP REGISTER 6              JK 05205433
005ECC 5870 0834            00834  6697+         L     R7,PCBPTR          POINTER TO PART.CONTR.BLOCK  @D34UDFR 07222234
                            00000  6698+         USING PCBADR,R7                                       @D34UDFR 07222934
005ED0 9550 0753      00753       6699+         CLI   TIK+D1,HPIKMT      IS THIS A MAINTASK           @D34UDFR 07225734
005ED4 47D0 60DE      05EF6       6700+         BNH   MAINTSK            BRANCH IF YES                @D34UDFR 07226234
005ED8 9604 8008      00008       6701+         OI    SVEPSW,SMDAT       PROTECT THE SYSTEM FROM      @DA09750 07228234
005EDC 920D 8009      00009       6702+         MVI   SVEPSW+1,ECBIT+MCBIT+PPBIT SAVE AREA MODIFICATION       07228434
005EE0 4400 B2D2            012D2  6703+         EX    R0,COMPCLC .       LTA GETS CONTROL?                  07228534
005EE4 4780 60FA      05F12       6704+         BE    RETURN             YES - PROTECTION KEY ZERO    @D34UDFR 07228634
005EE8 9603 8008      00008       6705+         OI    SVEPSW,ENABLE      DO NOT ALLOW DISABLED STATE  @DA09750 07229134
005EEC D300 8009 067F 00009 0067F 6706+         MVZ   SVEPSW+1(L1),PIK+1 .  NO - SET PROTECTION KEY          07230234
005EF2 47F0 60FA      05F12       6707+         B     SETBALT .          BRANCH AROUND MAINTASKS CODE @D34UDFR 07231834
                            05EF6  6708+MAINTSK  EQU   * .                                             @D34UDFR 07238634
005EF6 9140 7000      00000       6709+         TM    PCBFLAG,OWNTIMER   TASK TIMER TO BE SET?        @D34UDFR 07239334
005EFA 47E0 60FA      05F12       6710+         BNO   SETBALT .          NO,GOTO TEST BAL.TIMER       @D34UDFR 07239934
005EFE 4400 B2D2            012D2  6711+         EX    R0,COMPCLC         LTA GETS CONTROL             @D34UDFR 07241134
005F02 4780 60FA      05F12       6712+         BE    RETURN             BRANCH IF CONTROL TO LTA     @D34UDFR 07241234
005F06 5890 07A8            007A8  6713+         L     R9,ATTTAB          PTR TO TTIMER TABLE          @D34UDFR 07247734
005F0A B208 9008      00008       6714+         SPT   TTIME-TTTAB(R9)    SETUP TASK TIMER INTERRUPT   @D34UDFR 07248134
005F0E 9680 0830      00830       6715+         OI    SUPFLAG,TIMERSET   INDICATE TIMER SETTING      @D34UDFR 07249534
                                  6716+         DROP  R7                                             @D34UDFR 07250234
                            05F12  6717+SETBALT  EQU   * .                                            @D34UDFR 07262234
005F12 D207 0850 8008 00850 00008 6718+RETURN   MVC   ERA(L8),SVEPSW .   MAKE PSW ADDRESSABLE              AC 07305433
005F18 9898 8010            00010  6719+         LM    R9,R8,SVER09 .     RESTORE USER REGISTERS               07355433
005F1C 9208 087F      0087F       6720+         MVI   RID+D1,USERTID .   IDENTIFY PAGE FLT.IN USER TASK    FR 07405433
005F20 8200 0850      00850       6721+         LPSW  ERA .              GO BACK TO INTERRUPTED PROGRAM     AC 07605433


005F24 960B 0039      00039       6723+ALLBND   OI    IOOPSW+1,WAITBIT+PPBIT+ECBIT INITIALIZE WAIT PSW@DA05896 07705433
005F28 9603 0038      00038       6724+         OI    IOOPSW,ENABLE .    ENABLE INTERRUPTS                  AS 07755433
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

005F2C ACFC B65C      0165C        6725+          STNSM PSWMASK,DISABLE .  DISABLE INTERRUPTS           @DF00881 07855433
005F30 9200 09A9      009A9        6726+          MVI   ACCTFAID,JAOHID .  SET NEXT JOB ACCT USER TO ALLBOUND JB 07905433
005F34 4570 0DB8            00DB8  6727+          BAL   R7,JAXITS .        GO SET COUNTERS FOR JOB ACCT.@D31AUHL 07955433
005F38 AD03 B65C      0165C        6728+          STOSM PSWMASK,ENABLE .   ENABLE INTERRUPTS            @D31AUHL 08005433
005F3C 9101 0739      00739        6729+          TM    SYSFLAG2,IPLBIT    IS IPL IN PROGRESS           @DM04212 08155433
005F40 4710 61E0      05FF8        6730+          BO    REACTZ             YES, NO LOAD LEVELLING       @DM04212 08205433
005F44 58E0 0778            00778  6731+          L     RE,APMGR .         LOAD PMGR BASE                     FR 08255433
                            082E6  6732+          USING PMGRADR,RE                                        @DM03306 08305433
005F48 4150 E4D6            087BC  6733+          LA    R5,REACTC          CONDITIONAL REACTIVATION     @DM03306 08355433
005F4C 9500 0984      00984        6734+          CLI   NDEACTP,ZERO .     ANY PARTITION DEACTIVATED ?  @DF00881 08405433
005F50 4780 61DA      05FF2        6735+          BE    REACTX .           NO                           @DF00881 08455433
005F54 9102 0739      00739        6736+          TM    SYSFLAG2,TPBIT     TPIN IN PROGRESS             @DA06980 08555433
005F58 4780 6148      05F60        6737+          BZ    BLTPOFF            NO,BRANCH                    @DA06980 08605433
005F5C 4150 61E0            05FF8  6738+          LA    R5,REACTZ          WAIT ON INTERRUPTS           @DA06980 08655433
                            05F60  6739+BLTPOFF   EQU   *                                               @DA06980 08705433
005F60 4830 07C6            007C6  6740+          LH    R3,APNO .          GET NO.OF ACTIVE VIRT.PART.  @DF02306 08805433
005F64 1233                        6741+          LTR   R3,R3 .            ANY ACTIVE VIRT.PART.?       @DF02306 08855433
005F66 4780 61BC      05FD4        6742+          BZ    REACTY .           NO,UNCOND.REACTIV.           @DF02306 08905433
005F6A 9104 073B      0073B        6743+          TM    SYSFLAG4,KLLRSTBT  KILL RESET REQUESTED        @D34ZDRP 08925434
005F6E 4710 61BC      05FD4        6744+          BO    REACTY             YES, UNCOND. REACTIV.        @D34ZDRP 08935434
005F72 4830 0690            00690  6745+          LH    R3,YPUBTAB .       GET ADDRESS OF PUB TABLE     @DF00881 08955433
005F76 5840 0988            00988  6746+          L     R4,ATRTDV .                                     @DF02327 09005433
005F7A 95FF 3000      00000        6747+NXTRPUB   CLI   PUBCHANN,XFF .     END OF PUB TABLE ?           @DF00881 09055433
005F7E 4780 61BC      05FD4        6748+          BE    REACTY .           YES, UNCOND. REACTIVATION    @DF00881 09105433
005F82 95FF 3002      00002        6749+          CLI   PUBCHQPT,XFF .     I/O REQUEST PENDING ?        @DF00881 09155433
005F86 4780 617A      05F92        6750+          BE    BLHQ               NO, BRANCH                   @DA06980 09205433
005F8A 9118 3006      00006        6751+          TM    PUBCSFLG,QEDERR+OPINTV  ERROR OR INTERV. REQ    @DA06980 09255433
005F8E 4780 6182      05F9A        6752+          BZ    SKIPHQ             NO, SKIP HEADQUE TEST        @DA06980 09305433
005F92 9103 3007      00007        6753+BLHQ      TM    PUBJCFLG,HQIPR     HEADQ ACTIVE                 @DA06980 09355433
005F96 47E0 61A4      05FBC        6754+          BNO   CONTPUB            NO, CONTINUE SCAN            @DA06980 09405433
005F9A 9500 3004      00004        6755+SKIPHQ    CLI   PUBDEVTY,CONS .    REQU.FOR CONSOLE PENDING?    @DA06980 09455433
005F9E 4780 61A4      05FBC        6756+          BE    CONTPUB .          YES, CONTINUE PUBSCAN        @DF02327 09505433
005FA2 95B0 3004      00004        6757+          CLI   PUBDEVTY,LOWDVT .  TP-OR CRT-DEVICE POSSIBLE?   @DF02327 09555433
005FA6 4740 61DA      05FF2        6758+          BL    REACTX .           NO,COND. REACTIVATION        @DF02327 09605433
005FAA 95E0 3004      00004        6759+          CLI   PUBDEVTY,HIGHDVT . TP-OR CRT-DEVICE POSSIBLE?   @DF02327 09655433
005FAE 47B0 61DA      05FF2        6760+          BNL   REACTX .           NO,COND.REACTIVATION         @DF02327 09705433
005FB2 DD00 3004 4000 00004 00000  6761+          TRT   PUBDEVTY(ONE),D0(R4) TP-OR CRT-DEVICE?         @DF02327 09755433
005FB8 4780 61DA      05FF2        6762+          BZ    REACTX .           NO,COND. REACTIVATION        @DF02327 09805433
005FBC 4130 3008            00008  6763+CONTPUB   LA    R3,NEXTPUB .       GET NEXT PUB ENTRY           @DF02327 09855433
005FC0 47F0 6162      05F7A        6764+          B     NXTRPUB .                                       @DF00881 09905433

005FC4 9500 0984      00984        6766+EXCONT    CLI   NDEACTP,ZERO       ANY PART.DEACTIVATED         @DM03306 10005433
005FC8 4780 600C      05E24        6767+          BE    EXCONT1            NO,CONTINUE DISPATCHING      @DM03306 10055433
005FCC 58E0 0778            00778  6768+          L     RE,APMGR           SET BASE FOR PAGE MANAGER    @DM03306 10105433
005FD0 47F0 E4E2      087C8        6769+          B     REACTEX            UNCOND.REACTIVATIO           @DM03306 10155433

005FD4 9102 0739      00739        6771+REACTY    TM    SYSFLAG2,TPBIT     TPIN IN PROGRESS             @DA06980 10455433
005FD8 4780 61D6      05FEE        6772+          BZ    BLSKIP             NO, SKIP TESTING             @DA06980 10505433
005FDC 4850 07B4            007B4  6773+          LH    R5,TPBAL                                        @DA06980 10555433
005FE0 1255                        6774+          LTR   R5,R5              TPBAL DESIRED                @DA06980 10605433
005FE2 4780 61D6      05FEE        6775+          BZ    BLSKIP             NO, SKIP RESET OF TPIN       @DA06980 10655433
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                           DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

005FE6 94FD 0739      00739        6776+           NI    SYSFLAG2,XFF-TPBIT OPEN REACTIVATION            @DA06980 10705433
005FEA 9604 073B      0073B        6777+           OI    SYSFLAG4,KLLRSTBT  REQUEST KILL RESET           @DA06980 10755433
005FEE 4150 E4CA            087B0  6778+BLSKIP     LA    R5,REACTUC         UNCONDITIONAL REACT.         @DA06980 10805433
005FF2 ACFC B65C      0165C        6779+REACTX     STNSM PSWMASK,DISABLE .  DISABLE INTERRUPTS           @DF00881 10905433
005FF6 0595                        6780+           BALR  R9,R5              BRANCH TO REACTIV. RTN       @DM03306 10955433
                                   6781+           DROP  RE                                              @DM03306 11255433
                            05FF8  6782+REACTZ     EQU   *                                               @DM04212 11305433
005FF8 8200 0038      00038        6783+           LPSW  IOOPSW .           ENTER SYSTEM WAIT                 117 11405433

                                   6785+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 11505433
                                   6786+*                                                                       * 11555433
                                   6787+*          SYSTEM TASK DISPATCHER.                                      * 11605433
                                   6788+*                                                                       * 11655433
                                   6789+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 11705433

                            00000  6791+           USING SYSBLKS,RA  .      DECLARE ADDRESSIBILITY          PG402 11805433
                            05FFC  6792+SYSEXIT    EQU   * .                ACTIVATE SELECTED SYSTEM TASK      FR 11855433
005FFC 43AA 0798            00798  6793+           IC    RA,SYSPTR(RA) .    GET POINTER TO SYS.TSK.BLOCK       FR 11905433
006000 5AA0 0790            00790  6794+           A     RA,ASYSBLK0 .      ADDRESS OF SYSTEM TASK BLOCK       FR 11955433
006004 50A0 0794            00794  6795+           ST    RA,ASYSBLKX .      POINTER TO ACTIVE SYSTEM TSK BLOCK FR 12005433
006008 4880 A000            00000  6796+           LH    R8,SYSPIBFL .      GET ADDR.OF SYST.TASK PIB FLAG     FR 12055433
                            00000  6797+           USING SPIBADR,R8         DECLARE ADDRESSABILITY          PG402 12105433
00600C 9585 8000      00000        6798+           CLI   SPIBFLG,PTABND .   INITIAL SELECTION SYS.TASK   @DM01378 12155433
006010 9287 8000      00000        6799+           MVI   SPIBFLG,BOUND .    DEACTIVATE PIB FLAG          @DM01378 12205433
006014 47D0 6208      06020        6800+           BNH   NOTRAS .           NOT RAS, TEST FOR ERP        @DM01378 12305433
006018 58F0 0820            00820  6801+           L     RF,RASBASE .       YES,GET BASE FOR RAS ROUTINES         12355433
                            0C27A  6802+           USING MCSTRT,RF .        DECLARE THE BASE                      12405433
00601C 47F0 F14A      0C3C4        6803+           B     RASUPR .           GO TO RAS MONITOR ROUTINE             12455433

                            06020  6805+NOTRAS     EQU   * .                                              IB 3.5 12555433
006020 4770 621C      06034        6806+           BNE   SYSPROC .          NOT ERP,USE TASKS SAVEAREA   @DM01378 12655433
006024 58D0 0890            00890  6807+           L     RD,ERPBASE         LOAD BASE OF ERP INTERFACE   @D34RDFG 12665434
                            0E494  6808+           USING SGERP,RD                                        @D34RDFG 12675434
006028 47F0 D050      0E4E4        6809+           B     QUISIO .           INITIATE ERP                 @DM01378 12705433
                                   6810+           DROP  RD                                              @D34RDFG 12725434

00602C 58A0 0794            00794  6812+SYSRTRN    L     RA,ASYSBLKX .      ADDRESS OF ACTIVE SYSTEM TASK   PG402 12805433
006030 ACFC B65C      0165C        6813+           STNSM PSWMASK,DISABLE .  DISABLE INTERRUPTS                 AC 12855433
                            06034  6814+SYSPROC    EQU   * .                SELECT NEXT SYSTEM TASK         PG402 12905433
006034 1B88                        6815+           SR    R8,R8 .            CLEAR REGISTER.                       12955433
006036 4380 A002            00002  6816+           IC    R8,SYSPIK .        SET UP THE PIK OF THE USER TASK    RH 13005433
00603A 4280 0753            00753  6817+           STC   R8,TIK+1           RESTORE PIK/TIK              @D349DEM 13505434
00603E 4A80 06CC            006CC  6818+           AH    R8,YPIB2TAB .      POINT TO PIB EXT                   AP 13555433
                            00000  6819+           USING PIBADR,R8  .       DECLARE ADDRESSABILITY          PG402 13605433
006042 D200 067F 800D 0067F 0000D  6820+           MVC   PIK+1(L1),PIBPIK+1 RESTORE PIK                        AP 13655433
006048 BF73 8000            00000  6821+           ICM   R7,M3,PIBCOMRA     GET PART COMREG ADDR         @DA00284 13705433
00604C 4070 0016            00016  6822+           STH   R7,CRADDR+2        AND STORE IN LOW CORE        @DA00284 13755433
                            00000  6823+           USING SVEARA,R8 .        RESTORE STANDARD USING       @DM05517 13875433
006050 5880 A004            00004  6824+           L     R8,SYSAVAR .       SET UP SAVE AREA ADDRESS           RH 13905433
006054 D200 09A9 A004 009A9 00004  6825+           MVC   ACCTFAID,SYSJAID . MOVE SYSTEM ACT ID TO NEXT ACT ID     14005433
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00605A 4570 0DB8            00DB8  6826+         BAL   R7,JAXITS .        GO TO SET COUNTERS FOR JOB ACCT.      14055433
00605E 47F0 60FA      05F12        6827+         B     RETURN .           RESTORE SYSTEM STATUS                 14155433



                            00000  6829+         USING PIBADR,RA .        PIB POINTER                        FR 14255433
006062 4770 6254      0606C        6830+DATEXIT  BNZ   CDATROUT .         GOTO ACTIVATE PMGR ROUTINE      PG402 14305433
006066 9273 A000      00000        6831+         MVI   PIBFLG,SEIZEBND .  SET USER TASK TO SEIZE-BOUND       FR 14355433
00606A 07F6                        6832+         BR    R6 .               DISPATCH ANOTHER ONE                FR 14405433
00606C 58E0 0778            00778  6833+CDATROUT L     RE,APMGR .         LOAD BASE ADDRESS OF PAGE MANAGER   FR 14455433
                            082E6  6834+         USING PMGRADR,RE                                               14505433
006070 9103 A004      00004        6835+         TM    PIBDATFL,CINITSVC+CSVRET .                           FR 14555433
006074 4710 E300      085E6        6836+         BO    INITSVC .          INITIALIZE RETURN TO GATING SVC     FR 14605433
006078 9214 087F      0087F        6837+         MVI   RID+D1,DISPID      IDENTIFY PAGEFAULT IN EXIT    @DM13542 14655433
00607C 5880 A004            00004  6838+         L     R8,PIBSAVE         POINT TO SAVEAREA             @DM13542 14705433
006080 95FF 8000      00000        6839+         CLI   D0(R8),XFF         BE SURE THE ENTIRE SAVEAREA   @DM13542 14755433
006084 95FF 804F      0004F        6840+         CLI   SVER08-SVEARA+3(R8),XFF     .. IS IN STORAGE    @DM13542 14805433
006088 9204 087F      0087F        6841+         MVI   RID+D1,REENTRID .  IDENTIFY REENTRANT ROUTINES        FR 14855433
00608C 9103 A004      00004        6842+         TM    PIBDATFL,CINITSVC+CSVRET SET CONDITION CODE     @DM13542 14905433
006090 4770 E2DC      085C2        6843+         BNZ   SVRETURN .         INIT.RETURN TO REENTR.ROUT.         FR 14955433
006094 9110 A004      00004        6844+         TM    PIBDATFL,CDEACT .  DEACTIVATION OF TASK NECESSARY      FR 15055433
006098 4710 E316      085FC        6845+         BO    DETASK .           YES,GOTO DEACTIVATION ROUTINE       FR 15105433
00609C 9104 A004      00004        6846+         TM    PIBDATFL,CMOVECCB .                                    FR 15205433
0060A0 4710 E338      0861E        6847+         BO    MOVECCB .          CALL MOVE CCB ROUTINE               FR 15255433
0060A4 58E0 0878            00878  6848+         L     RE,AEXTRTN .       SET UP BASE FOR EXTRTN             LDR 15355433
                            02D68  6849+         USING EXTRTN,RE .        DECLARE ADDRESSABILITY             520 15405433
0060A8 9108 A004      00004        6850+         TM    PIBDATFL,CDELEX .  TIMER INTERRUPT PENDING            520 15455433
0060AC 4710 E064      02DCC        6851+         BO    EXTRETRN .         CALL DELAYED EXTRN.ROUTINE         520 15505433
                                   6852+         DROP  RE                                                    AM 15555433
0060B0 9120 A004      00004        6853+         TM    PIBDATFL,OCPEND    OC INT. PENDING               @DM10713 15705433
0060B4 4780 6090      05EA8        6854+         BZ    SEIZRTRN           BR. IF NOT                    @DM10713 15755433
0060B8 58D0 0894            00894  6855+         L     RD,APBASE          BASE OF ASYNCHR.PROC.ROUTINES@D34RDFG 15765434
                            0E722  6856+         USING SGAP,RD                                        @D34RDFG 15775434
0060BC 4550 D8E6            0F008  6857+         BAL   R5,GETOC           GET OC TABLE ADDRESS          @DM10713 15805433
0060C0 94DF A004      00004        6858+         NI    PIBDATFL,XFF-OCPEND SETOFF OC INT. PENDING       @DM10713 15855433
0060C4 9101 A00F      0000F        6859+         TM    PIBFLG2,ABINPR     AB ROUTINE IN PROGRESS        @D33DDJO 15955433
0060C8 4710 6090      05EA8        6860+         BO    SEIZRTRN           YES, SKIP OC EXIT             @D33DDJO 16005433
0060CC 47F0 D89A      0EFBC        6861+         B     ITROUT             MAP PSW TO BC                 @DM10713 16105433
                                   6862+         DROP  RD                 DROP ASYNCHR.PROC.BASE        @D34RDFG 16125434
                                   6863+*                                  AND SET RTN IN USE           @DM10713 16155433


                                   6865+*************************************************************          16376834
                                   6866+*                                                           *          16376934
                                   6867+*       CONSTANTS,DISPATCHER FIELDS                         *          16377034
                                   6868+*                                                           *          16377134
                                   6869+*************************************************************          16377234

0060D0 00000000                    6871+PCBATAB  DC    F'0'                                         @D34UDFR 16379434
0060D4 0000F960                    6872+         DC    A(PCBBG)                                     @D34UDFR 16395434
0060D8 0000F968                    6873+         DC    A(PCBF4)                                     @D34UDFR 16395434
0060DC 0000F970                    6874+         DC    A(PCBF3)                                     @D34UDFR 16395434
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0060E0 0000F978                   6875+         DC    A(PCBF2)                                          @D34UDFR 16395434
0060E4 0000F980                   6876+         DC    A(PCBF1)                                          @D34UDFR 16395434
                                  6877+* SUPERVISOR - SGDFCH - 5745-SC-SUP - REL. 34.1                  @DY15502 02300234
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  6879+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 09147728
                                  6880+*                                                                          09159328
                                  6881+*        FETCH ROUTINE.                                                    09170928
                                  6882+*                                                                          09182528
                                  6883+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 09232528

                                  6885+********       COMMUNICATION REGISTERS:                              LAV 10100028
                                  6886+********       R0 - FOR SVC 1/2/4/5 OVERRIDING LOAD ADDRESS          LAV 10200028
                                  6887+********          - FOR SVC 23 POINTER TO LOCATION WHERE          @DL29ZCJ 10300029
                                  6888+********            PHASE HEADER SHOULD BE MOVED TO               LAV 10400028
                                  6889+********       R1 - POINTER TO PHASE NAME OR PARAMETER LIST       @DL29ZCJ 10500029
                                  6890+********          - FOR SVC 51 POINTER TO DIRECTORY ENTRY         @DL29ZCJ 10502029
                                  6891+********       R3 - INDICATES WHETHER SVC 65 REQUEST OR NOT          Z0843 10505028
                                  6892+********       R6 - BASE REGISTER FOR FETCH ROUTINE              @DL29ZCF 10600029
                                  6893+********       R9 - LINK REGISTER FOR RETURN TO CALLING ROUTINES      LAV 10700028

                         00000    6895+         USING CCWADR,R7 .       CCW BASE R7                     @DM01924 10802028
                         00000    6896+         USING PIBADR,RA                                         @DL29ZCF 10804029
                         060E8    6897+FETCH    EQU   * .                                                  Z0843 10810028
                         060E8    6898+CRTFCH2  EQU   * .               ENTRY WHEN CRT ACTIVE           @DM01378 10901128
                         060E8    6899+FETCHERP EQU   * .               ENTRY FOR ERP                   @DM01378 10901228
0060E8 4140 006F         0006F    6900+         LA    R4,IDRABND .      MAKE TASK IDRA BOUND            @DM01378 10926729
0060EC 9500 0955  00955           6901+         CLI   TRTIDRA,ZERO .    IS IDRA IN USE?                 @DM01378 10932829
0060F0 4780 0FE0  00FE0           6902+         BE    RESVCX .          YES,FORCE TASK TO RESVC          @DM01378 10938929
0060F4 9200 0955  00955           6903+         MVI   TRTIDRA,ZERO .    INDICATE IDRA IN USE            @DM01378 10945029
0060F8 9102 0689  00689           6904+         TM    LCBYTE,FCHQ       SCIL UPDATE IN PROCESS?         @DL29ZCJ 10953129
0060FC 4710 0FE0  00FE0           6905+         BO    RESVCX            YES, ENQUEUE CALLER             @DL29ZCF 10955129
006100 5860 0708         00708    6906+         L     R6,AFETCH         LOAD BASE FOR FETCH ROUTINE     @DL29ZCF 10960429
                         060E8    6907+         USING FETCH,R6                                            @DL29ZCF 10962429
006104 9500 073D  0073D           6908+         CLI   SELECT,ZERO .     REQUEST FROM SYSTEM TASK        @DM01378 10963929
006108 4770 603C  06124           6909+         BNE   SYSFCH .          YES,INIT. FOR SYST. FETCH       @DM01378 10967228
00610C 4240 A000         00000    6910+         STC   R4,PIBFLG .       SET TASK TO FETCH BOUND         @DM01378 10977228
006110 94F0 097F  0097F           6911+         NI    FCHSW,USERF .     INDICATE REQUEST FROM USER-TASK    LA 11000028
006114 9500 0753  00753           6912+         CLI   TIK+D1,ZERO  .    REQUEST FROM ATTN-TASK ?           KR 11000528
006118 4780 6040  06128           6913+         BE    ATTNFCH .         YES                                KR 11001028
00611C 5820 A008         00008    6914+         L     R2,PIBSAV2 .      GET ADDR. OF SYSTEM SAVEAREA       KR 11001528
006120 47F0 6048  06130           6915+         B     FCHCONT .                                         @DM01378 11008528
                         06124    6916+SYSFCH   EQU   *                                                 @DM01378 11034528
006124 9601 073A  0073A           6917+         OI    SYSFLAG3,PDFLAG . SET SYSTEM FETCH FLAG ON           466 11307328
006128 9601 097F  0097F           6918+ATTNFCH  OI    FCHSW,SYSATTN .   INDICATE REQUEST FROM SYSTEM TASK  KR 11308528
00612C 4120 B618         01618    6919+         LA    R2,FCHWORK-8      FETCH WORK AREA                 @DM06600 11308929
006130 9207 073D  0073D           6920+FCHCONT  MVI   SELECT,SUPVR .     ACTIVATE SUPVR-TASK             @DM01378 11309028
006134 9680 0B79  00B79           6921+         OI    FCHGATE,CLOSE     CLOSE FETCH GATE                @DL29ZCJ 11309129
006138 4180 B740         01740    6922+         LA    R8,SUPBLOCK .     GET ADDR.OF FETCH  BLOCK        @DM01378 11309528
00613C 5080 0794         00794    6923+         ST    R8,ASYSBLKX .     STORE IT AS CURRENT.ACT.PTR.    @DM01378 11310028
                                  6924+         DROP  R8                                                @DM15365 11311033
                         00000    6925+         USING SVEARA,R2 .                                         KR 11312029
006140 5090 2058         00058    6926+         ST    R9,FCHRET .       SAVE RETURN ADDRESS               KR 11312429
                                  6927+         DROP  R2 .                                                KR 11312829
006144 1892                       6928+         LR    R9,R2 .                                             KR 11313229
                         00000    6929+         USING SVEARA,R9 .       R9 IS BASE REG.FOR SYSTEM SAVEA.  KR 11313329
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  6930+*                                PLUS TCB (CCW-TRANSLATION)      KR 11313429

                                  6932+*****************************************************************KR 11320528
                                  6933+*        RIGHT HALF-BYTE OF FCHSW IS ONE FOR ALL SYSTEM- AND ATTN-   KR 11327528
                                  6934+*        TASK REQUESTS. FOR USER TASK REQUESTS RIGHT HALF-BYTE OF    KR 11334528
                                  6935+*        FCHSW IS ZERO. IN CASE A PAGE REQUEST  CANNOT BE HANDLED THEKR 11341528
                                  6936+*        STATUS OF THE FETCH ROUTINE IS SAVED AND THE FETCH ROUTINE  KR 11348528
                                  6937+*        IS RELEASED IF RIGHT HALF-BYTE OF FCHSW IS ZERO. IN CASE    KR 11355528
                                  6938+*        RIGHT HALF-BYTE OF FCHSW IS ONE NO PAGE REQUEST MUST OCCUR  KR 11362528
                                  6939+*        DURING FETCH.                                               KR 11369528
                                  6940+*****************************************************************KR 11376528

                                  6942+*                                                                    GS 11900028
                                  6943+* DETERMINE IF SYSCLB IS ASSIGNED AND INITIALIZE FTPCIL        @DL29ZCJ 12000029
                                  6944+*                                                                    GS 12100028
006146 4BA0 0BDE          00BDE   6945+         SH    RA,PIBDIFF .       GET INDEX TO FIRST SYSTEM LUB      EM 12200028
00614A 4870 A002          00002   6946+         LH    R7,SYSLUBX .       FROM REQUESTORS PIB 2              EM 12250028
00614E 4AA0 0BDE          00BDE   6947+         AH    RA,PIBDIFF .       CORRECT POINTER TO PIB OF REQUESTOREM 12300028
006152 4177 7016          00016   6948+         LA    R7,SYSCLB*2(R7,R7) GET OFFSET TO REQU.SYSCLB IN LUBTABEM 12350028
006156 4A70 069C          0069C   6949+         AH    R7,YLUBTAB .       ADD START OF LUB TABLE             EM 12400028
00615A 1B88                       6950+         SR    R8,R8 .            ASSUME PCIL UNASSIGNED         @DL29ZCJ 12450033
00615C 9500 0753    00753         6951+         CLI   TIK+D1,ZERO        PCIL IS NOT SEARCHED           @DA07563 12500034
006160 4780 6094    0617C         6952+         BE    NPCIL01                 FOR ATTENTION TASK       @DA07563 12550034
006164 95FF 7000    00000         6953+         CLI   ZERO(R7),XFF .     IS PCIL UNASSIGNED                 GS 12800028
006168 4780 6094    0617C         6954+         BE    NPCIL01 .          YES,LEAVE SWITCH                   GS 12900028
00616C 4880 067E          0067E   6955+         LH    R8,PIK             PARTITION ID * 16              @DL29ZCJ 12950029
006170 8A80 0002          00002   6956+         SRA   R8,L2              PARTITION ID * 4               @DL29ZCJ 13000029
006174 4A80 067E          0067E   6957+         AH    R8,PIK             PARTITION ID * 20              @DL29ZCJ 13050029
006178 5A80 07E8          007E8   6958+         A     R8,AFTTAB          PLUS FTTAB BASE                @DL29ZCJ 13060029
                          0617C   6959+NPCIL01  EQU   * .                                                  GS 13100028
00617C BE87 9064          00064   6960+         STCM  R8,M7,FTPCIL       FTTAB OFFSET FOR PCIL          @DL29ZCJ 13102029
                                  6961+*                                 OR ZERO IF NO PCIL ASSIGNED    @DL29ZCJ 13106029
006180 5880 0714          00714   6962+BONCE    L     R8,ALTA .          GET ADDRESS OF LTA                      13300028
006184 07F8                       6963+         BR    R8 .               AND EXECUTE TEMPORARY CODE              13400028

                                  6965+*        ABOVE 2 INSTRUCTIONS ARE OVERWRITTEN DURING IPL TIME WITH:   * 13600028

                                  6967+*        MVC   CALLSEQ,0(R1)      MOVE PHASE NAME                @DL29ZCJ 13800029

                          06186   6969+PCKADR1  EQU   * .             PROGRAM CHECK HERE IF R1 BEYOND CORE  AM 13900128
006186 1B22                       6970+         SR    2,2                ASSUME NO OPTIONS              @DL29ZCJ 13910129
006188 91FF 905C    0005C         6971+         TM    CALLSEQ,XFF        TEST FOR PARAM LIST            @DL29ZCJ 13920129
00618C 4770 60DC    061C4         6972+         BNZ   OLDCS              NO, BRANCH                     @DL29ZCJ 13930129
006190 4BA0 0BDE          00BDE   6973+         SH    RA,PIBDIFF         POINT TO PIB2                  @DA08089 13931533
006194 9541 A007    00007         6974+         CLI   SVCIC,65           IS REQUEST FOR CDLOAD          @DA08089 13932233
006198 41AA 0100          00100   6975+         LA    RA,PIBTAB-PIB2TAB(RA)  RESTORE POINT TO PIB      @DA08089 13932933
00619C 4780 60D8    061C0         6976+         BE    NOCHK              NO VALIDATION FOR CDLOAD       @DA08089 13933633
0061A0 9110 9060    00060         6977+         TM    LISTFLAG,SVALOAD   FOR SVALOAD                    @DA08089 13935033
0061A4 4710 60D8    061C0         6978+         BO    NOCHK              DONT VALIDATE ADDRESS          @DA08089 13935733
0061A8 5810 905C          0005C   6979+         L     R1,CALLSEQ         POINT TO BEGINNING OF LIST     @DA08089 13936433
0061AC 4121 0007          00007   6980+         LA    R2,L7(R1)          UPPER LIMIT OF LIST            @DA08089 13937133
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0061B0 9102 9060      00060        6981+            TM    LISTFLAG,DENTRY    IF NO DIR ENTRY               @DA08089 13937833
0061B4 47E0 60D4      061BC        6982+            BNO   CHKVAL             UPPERLIMIT OKE                @DA08089 13938533
0061B8 4122 001A            0001A  6983+            LA    R2,26(R2)          UPPER LIMIT FOR DE            @DA08089 13939233
0061BC 4580 B2D2            012D2  6984+CHKVAL      BAL   R8,VALID           VALIDATE ADDRESS LIMITS       @DA08089 13939933
                            061C0  6985+NOCHK       EQU   *                                                @DA08089 13940033
0061C0 9812 905C            0005C  6986+            LM    R1,R2,CALLSEQ      PICK UP CALLING PARAMS        @DL29ZCJ 13940129
0061C4 D207 9068 1000 00068 00000  6987+OLDCS       MVC   CALLNAME,D0(R1)    MOVE REAL PHASENAME           @DL29ZCJ 13942129
                            061CA  6988+PCKADR1A EQU   *                  PGM CHECK IF R1 BEYOND CORE   @DL29ZCJ 13944129
0061CA 91FF 9068      00068        6989+            TM    CALLNAME,XFF       LOOK AT FIRST BYTE OF NAME    @DY15502 13944734
0061CE 47B0 6404      064EC        6990+            BNM   PHNFND             INVALID IF X'00' OR X'FF'     @DY15502 13945334
0061D2 9012 905C            0005C  6991+            STM   R1,R2,CALLSEQ      SAVE CALLING PARAMS           @DL29ZCJ 13946129
0061D6 4172 0000            00000  6992+            LA    R7,D0(R2)          POINT TO LOCAL DIR LIST       @DL29ZCJ 13949729
0061DA 4180 6118            06200  6993+            LA    R8,RTRN            SET RETURN FROM SCAN          @DL29ZCJ 13949829
0061DE 9102 9060      00060        6994+            TM    LISTFLAG,DENTRY    CHECK FOR DIR. ENTRY          @DL29ZCJ 13949929
0061E2 4710 61A0      06288        6995+            BO    TSTENTRY           YES, VALIDATE ONLY            @DL29ZCJ 13950029
0061E6 1277                        6996+            LTR   R7,R7              TEST FOR LIST ADDRESS         @DA08089 13952033
0061E8 0788                        6997+            BZR   R8                 BRANCH IF NO LIST             @DA08089 13954033
0061EA 1817                        6998+            LR    R1,R7              GET LOWER LIMIT               @DA08089 13956033
0061EC 4827 0000            00000  6999+            LH    R2,D0(R7)          LENGTH OF LIST                @DA08089 13958033
                            061F0  7000+PCKADR1E EQU   *                  PCHECK HERE IF BAD LIST       @DA10464 13959034
0061F0 0620                        7001+            BCTR  R2,R0              MINUS ONE                     @DA08089 13960033
0061F2 1A21                        7002+            AR    R2,R1              GET UPPER LIMIT               @DA08089 13962033
0061F4 4580 B2D2            012D2  7003+            BAL   R8,VALID           VALIDATE ADDRESS LIMITS       @DA08089 13964033
0061F8 4180 6118            06200  7004+            LA    R8,RTRN            RETURN FROM SCAN TO RTRN      @DA08089 13966033
0061FC 47F0 614C      06234        7005+            B     SCANLIST           SCAN FOR DIR. ENTRY           @DL29ZCJ 13966729
                            06200  7006+RTRN        EQU   *                  RETURN FROM SCAN/VALIDATE     @DL29ZCJ 13976729
006200 4770 649A      06582        7007+            BNZ   ENTRYFND           BRANCH IF USEABLE ENTRY       @DL29ZCJ 13978729
                            00000  7008+            USING FTENTRY,R8         FETCH TABLE ENTRY             @DL29ZCJ 13983429
006204 955B 9068      00068        7009+            CLI   CALLNAME,DOLLAR    DOLLAR PHASE REQUESTED?       @DL29ZCJ 14000129
006208 4780 613C      06224        7010+            BE    SYSSCAN            YES,BRANCH                    @DL29ZCJ 14050129
00620C 9104 9060      00060        7011+            TM    LISTFLAG,SYSLIST   SCAN SCIL FIRST REQUESTED?    @DL29ZCJ 14060129
006210 4710 613C      06224        7012+            BO    SYSSCAN            YES, BRANCH                   @DL29ZCJ 14070129
006214 4540 6252            0633A  7013+            BAL   R4,SCANLINK        SCAN LINK DIR., IF PRESENT    @DL29ZCJ 14100129
006218 4540 628A            06372  7014+            BAL   R4,SCANPCIL        SCAN PCIL DIR., IF PRESENT    @DL29ZCJ 14200129
00621C 4540 629E            06386  7015+            BAL   R4,SCANSCIL        SCAN SCIL DIRECTORY           @DL29ZCJ 14300129
006220 47F0 6404      064EC        7016+            B     PHNFND             IF ALL SCANS UNSUCCESFUL,     @DL29ZCJ 14350129
                                   7017+*                                    PHASE NOT FOUND               @DL29ZCJ 14400129
006224 4540 629E            06386  7018+SYSSCAN     BAL   R4,SCANSCIL        SCAN SCIL DIRECTORY           @DL29ZCJ 14450129
006228 4540 628A            06372  7019+            BAL   R4,SCANPCIL        SCAN PCIL DIR., IF PRESENT    @DL29ZCJ 14550129
00622C 4540 6252            0633A  7020+            BAL   R4,SCANLINK        SCAN LINK DIR., IF PRESENT    @DL29ZCJ 14650129
006230 47F0 6404      064EC        7021+            B     PHNFND             IF ALL SCANS UNSUCCESSFUL,    @DL29ZCJ 14700129
                                   7022+*                                    PHASE NOT FOUND               @DL29ZCJ 14750129
                                   7023+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14750429
                                   7024+*      THIS ROUTINE SCANS THE DIRECTORY POINTED TO BY R7 TO           * 14750729
                                   7025+*      FIND AN ENTRY MATCHING THE PHASENAME IN CALLNAME.              * 14751029
                                   7026+*      EXITS:                                                         * 14751329
                                   7027+*            1:               + TO PHNFND IF NOT FOUND(NOTFND)        * 14751629
                                   7028+*                               FLAG SET IN ENTRY.                    * 14751929
                                   7029+*            2:               + TO PHNFND IF ENTRY SPECIFIES A        * 14752229
                                   7030+*                               PCIL AND NONE IS ASSIGNED.            * 14752529
                                   7031+*            3:               + TO CALLER WITH CC=0 IF NO             * 14752829
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  7032+*                                DIRECTORY SPECIFIED(R7=0).          * 14753129
                                  7033+*              4:              + TO CALLER WITH CC=0 IF NO           * 14753429
                                  7034+*                                MATCH FOUND IN THE LIST.            * 14753729
                                  7035+*              5:              + TO CALLER WITH CC=0 IF THE LIST     * 14753829
                                  7036+*                                LENGTH IS NOT A POSITIVE MULTIPLE   * 14753929
                                  7037+*                                OF THE ELEMENT LENGTH.              * 14754429
                                  7038+*              6:              + TO CALLER WITH CC=0 IF THE          * 14759629
                                  7039+*                                ENTRY IS NOT ACTIVE.                * 14760129
                                  7040+*              7:              + TO CALLER WITH CC>0 IF A VALID,     * 14760629
                                  7041+*                                ACTIVE ENTRY IS FOUND.              * 14761129
                                  7042+*              8:              + TO CALLER WITH CC=0 IF THE PHASE    * 14761629
                                  7043+*                                IS IN THE SVA, AND FEWER THAN 8     * 14762129
                                  7044+*                                PAGES ARE AVAILABLE IN THE MAIN     * 14762629
                                  7045+*                                PAGE POOL.                          * 14763129
                                  7046+*        PREVIOUSLY FOUND INACTIVE ENTRIES WILL BE UPDATED.          * 14763629
                                  7047+*        AN ALTERNATE ENTRY POINT, TSTENTRY, IS USED TO TEST         * 14764129
                                  7048+*        DIRECTORY ENTRIES POINTED TO DIRECTLY BY R1.  EXIT 6,       * 14764629
                                  7049+*        EXIT 7 OR EXIT 8 WILL BE TAKEN IN THIS CASE.                * 14765129
                                  7050+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14765629
006234 1277                       7051+SCANLIST LTR   R7,R7              TEST LIST ADDRESS           @DL29ZCJ 14766129
006236 0788                       7052+         BZR   R8                 EXIT IF NO DIR. SPECIFIED   @DL29ZCJ 14766629
006238 4857 0000            00000 7053+         LH    R5,D0(R7)          LIST LENGTH                 @DL29ZCJ 14767129
                            0623C 7054+PCKADR2E EQU   *                  PROG. CHECK HERE IF BAD LIST @DY13570 14767234
00623C 4127 0002            00002 7055+         LA    R2,D2(R7)          POINT TO FIRST ELEMENT      @DL29ZCJ 14767329
006240 12F5                       7056+         LTR   RF,R5              CHECK LIST LENGTH           @DL29ZCJ 14767529
006242 4720 6162      0624A       7057+         BP    SCANCHK            BRANCH IF > 0               @DL29ZCJ 14767729
006246 1BEE                       7058+         SR    RE,RE              INVALID LIST LENGTH         @DL29ZCJ 14767929
006248 07F8                       7059+         BR    R8                 EXIT CC = 0                 @DL29ZCJ 14768129
00624A 1BEE                       7060+SCANCHK  SR    RE,RE              CLEAR FOR DIVIDE            @DL29ZCJ 14768329
00624C 4170 0022            00022 7061+         LA    R7,LISTEL          ELEMENT LENGTH              @DL29ZCJ 14768529
006250 1DE7                       7062+         DR    RE,R7              LIST LENGTH/ELEMENT LENGTH  @DL29ZCJ 14768729
006252 06E0                       7063+         BCTR  RE,0               REMAINDER MUST BE 2         @DL29ZCJ 14768929
006254 06E8                       7064+         BCTR  RE,R8              EXIT CC = 0 IF NOT          @DL29ZCJ 14769129
006256 1B27                       7065+         SR    R2,R7              POINT ONE BEFORE FIRST      @DL29ZCJ 14769229
006258 41F0 0020            00020 7066+         LA    RF,LISTEL-2        TO POINT ONE AFTER LAST     @DL29ZCJ 14769329
00625C 1A5F                       7067+SCANHI   AR    R5,RF              ADD LAST DELTA DIFFERENCE   @DL29ZCJ 14769629
00625E 41F0 0002            00002 7068+SCANLO   LA    RF,LISTMSK         LO ORDER ZEROS MASK         @DL29ZCJ 14770129
006262 14F5                       7069+         NR    RF,R5              TEST FOR EVEN DELTA         @DL29ZCJ 14770629
006264 4780 6184      0626C       7070+         BZ    SCAN1              YES, BRANCH                 @DL29ZCJ 14771129
006268 1B57                       7071+         SR    R5,R7              MAKE DELTA EVEN             @DL29ZCJ 14771629
00626A 18F7                       7072+         LR    RF,R7              SET UP DIFFERENCE           @DL29ZCJ 14772129
00626C 8A50 0001            00001 7073+SCAN1    SRA   R5,L1              DIVIDE DELTA BY TWO         @DL29ZCJ 14772529
006270 0788                       7074+         BZR   R8                 EXIT IF NO MORE ENTRIES     @DL29ZCJ 14773129
006272 1A25                       7075+         AR    R2,R5              BASE PLUS DELTA             @DL29ZCJ 14773629
006274 D507 9068 2000 00068 00000 7076+         CLC   CALLNAME,D0(R2)    COMPARE PHASENAME TO ENTRY  @DL29ZCJ 14774129
                            0627A 7077+PCKADR1B EQU   *                  PGM CHK HERE IF R2 INVALID  @DL29ZCJ 14774629
00627A 4720 6174      0625C       7078+         BH    SCANHI             PHASENAME HI: SCAN HIGHER   @DL29ZCJ 14775129
00627E 4780 61A2      0628A       7079+         BE    SCANEQ             THIS IS THE ONE             @DL29ZCJ 14775629
006282 1B25                       7080+         SR    R2,R5              PHASENAME LO: MOVE BASE     @DL29ZCJ 14776129
006284 47F0 6176      0625E       7081+         B     SCANLO             DOWN AND SCAN LOWER         @DL29ZCJ 14776629
                            06288 7082+TSTENTRY EQU   *                  ENTRY POINT FOR CHECK  ONLY @DL29ZCJ 14777129
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

006288 1821                      7083+          LR    R2,R1               SET FOR TEST                  @DL29ZCJ 14777629
                           0628A 7084+SCANEQ    EQU   *                   TEST FOUND ENTRY              @DL29ZCJ 14778129
                           00000 7085+          USING DIRECTRY,R2         ADDRESSABILITY TO ENTRY       @DL29ZCJ 14778629
00628A D219 9070 2008 00070 00008 7086+          MVC   ENTRYSAV,DIRTTR     SAVE ENTRY                    @DL29ZCJ 14779129
                           06290 7087+PCKADR1C EQU   *                   PGM CHK HERE IF R2 INVALID    @DL29ZCJ 14779629
006290 9200 9079      00079      7088+          MVI   ENTRYT,ZERO         CLEAR STOW FUNCTION BYTE      @DL29ZCJ 14780029
                                 7089+          DROP  R2                  AVOID CONFLICT WITH R1        @DL29ZCJ 14780129
006294 9102 9078      00078      7090+          TM    ENTRYC,ACTIVE       ACTIVE ENTRY?                 @DL29ZCJ 14780629
006298 4780 6242      0632A      7091+          BZ    SCANEQX             NO, BRANCH                    @DL29ZCJ 14781129
00629C 9104 9078      00078      7092+          TM    ENTRYC,NOTFND       PHASE PREVIOUSLY NOT FOUND?   @DL29ZCJ 14781629
0062A0 4710 623E      06326      7093+          BO    SCANEQER            YES, EXIT TO PHNFND           @DL29ZCJ 14782129
0062A4 58F0 07E8           007E8 7094+          L     RF,AFTTAB           POINT TO SYSRES FTTAB ENTRY   @DL29ZCJ 14782929
                           00000 7095+          USING FTENTRY,RF          ADDRESSABILITY TO FTTAB       @DL29ZCJ 14785729
0062A8 9206 9058      00058      7096+          MVI   CILSET,SYSRES       SET SCIL INDICATOR            @DL29ZCF 14786329
0062AC 9108 9078      00078      7097+          TM    ENTRYC,PCIL         DOES ENTRY SPECIFY PCIL?      @DL29ZCJ 14786429
0062B0 4780 61D8      062C0      7098+          BZ    SCANEQ1             NO, BRANCH                    @DL29ZCJ 14786829
0062B4 920B 9058      00058      7099+          MVI   CILSET,SYSCLB       SET PCIL INDICATOR            @DL29ZCJ 14787229
0062B8 BFF7 9064           00064 7100+          ICM   RF,M7,FTPCIL        IS PCIL ASSIGNED?             @DL29ZCJ 14787629
0062BC 4780 623E      06326      7101+          BZ    SCANEQER            NO, EXIT TO PHNFND            @DL29ZCJ 14788029
                           062C0 7102+SCANEQ1   EQU   *                   PCIL OK                       @DL29ZCJ 14788429
0062C0 9110 9078      00078      7103+          TM    ENTRYC,SVAPHASE     PHASE FOUND IN SVA?           @DL29ZCJ 14790429
0062C4 4780 61F2      062DA      7104+          BZ    SCANEQ2             NO, BRANCH                    @DL29ZCJ 14790829
0062C8 5850 07D4           007D4 7105+          L     R5,ABBOX            ADDRESS OF BBOX               @DL29ZCJ 14791229
                           00000 7106+          USING BBOXADR,R5          ADDRESSABILITY TO BBOX        @DL29ZCJ 14791629
0062CC 4850 5006           00006 7107+          LH    R5,MPGEPOOL         NUMBER OF AVAILABLE PAGES     @DL29ZCJ 14792029
0062D0 8A50 0003           00003 7108+          SRA   R5,L3               LESS THAN 8?                  @DL29ZCJ 14792429
0062D4 0788                      7109+          BZR   R8                  YES, EXIT TO CALLER CC=0      @DL29ZCJ 14792829
                                 7110+          DROP  R5                  BBOX NO LONGER NEEDED         @DL29ZCJ 14793229
0062D6 9601 9060      00060      7111+          OI    LISTFLAG,NTXTNTRY   SET TO BYPASS LOAD           @DM08872 14793430
                           062DA 7112+SCANEQ2   EQU   *                                               @DM08872 14793630
0062DA 9101 097F      0097F      7113+          TM    FCHSW,SYSATTN       FETCH FOR NON-USER            @DA03851 14793734
0062DE 4710 6216      062FE      7114+          BO    SCANEQ4             YES,BYPASS SVA/SDL            @DA03851 14793834
0062E2 9140 07EC      007EC      7115+          TM    ASVA,SDLBUILT       HAS SVA BEEN BUILT            @DA10449 14794034
0062E6 4780 6216      062FE      7116+          BZ    SCANEQ4             NO, BYPASS SDL SEARCH         @DA10449 14794134
0062EA 5870 07EC           007EC 7117+          L     R7,ASVA             POINT TO SVA AREA             @DM08872 14794434
                           00000 7118+          USING DSVA,R7             ADDRESSABILITY TO SVA HEADER  @DL29ZCJ 14794534
0062EE 5920 7008           00008 7119+          C     R2,VDSA             FOUND ENTRY IN SVA?           @DL29ZCJ 14794634
0062F2 4740 6216      062FE      7120+          BL    SCANEQ4             NO, BRANCH                    @DL29ZCJ 14794734
0062F6 5920 700C           0000C 7121+          C     R2,VLSA             FOUND ENTRY IN SDL?           @DL29ZCJ 14794834
0062FA 4740 6224      0630C      7122+          BL    SCANEQ3             YES, BYPASS CHECK             @DM05246 14794929
                                 7123+          DROP  R7                                            @DL29ZCJ 14795029
0062FE D500 9086 F000 00086 00000 7124+SCANEQ4 CLC   ENTRYK,CONDSDIR      ENTRY BUILT SINCE LAST CONDS?@DL29ZCJ 14795229
006304 4780 6224      0630C      7125+          BE    SCANEQ3             YES, BRANCH                   @DL29ZCJ 14795429
006308 94FD 9078      00078      7126+          NI    ENTRYC,XFF-ACTIVE   DE-ACTIVATE ENTRY             @DL29ZCJ 14795529
00630C 9108 9060      00060      7127+SCANEQ3   TM    LISTFLAG,FNDENTRY   PREVIOUS INACTIVE ENTRY?      @DL29ZCJ 14795629
006310 4780 6242      0632A      7128+          BZ    SCANEQX             NO, BRANCH                    @DL29ZCJ 14795729
006314 D200 9086 F000 00086 00000 7129+          MVC   ENTRYK,CONDSDIR      SET CONDS COUNTER IN ENTRY    @DL29ZCJ 14795829
                                 7130+          DROP  RF                                            @DL29ZCJ 14795929
                           00000 7131+          USING DIRECTRY,R1         ADDRESSABILITY TO OLD ENTRY   @DL29ZCJ 14796229
00631A 5810 905C           0005C 7132+          L     R1,CALLPNAM         RESTORE POINTER TO ENTRY      @DM05246 14800629
00631E D219 1008 9070 00008 00070 7133+          MVC   DIRTTR(LISTEL-L8),ENTRYSAV    UPDATE IT           @DL29ZCJ 14806129
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            00000  7134+         USING CCBADR,R1          RESTORE ORIGINAL USING       @DL29ZCJ 14810529
006324 07F8                        7135+         BR    R8                 EXIT TO CALLER, CC>0         @DL29ZCJ 14814929
006326 4180 6404                064EC  7136+SCANEQER LA    R8,PHNFND          SET ERROR EXIT               @DL29ZCJ 14819329
00632A 9608 9060      00060         7137+SCANEQX  OI    LISTFLAG,FNDENTRY  SET FOUND ENTRY FLAG        @DL29ZCJ 14823729
00632E 1812                        7138+         LR    R1,R2              POINT TO FOUND ENTRY         @DL29ZCJ 14828129
006330 5010 905C                0005C  7139+         ST    R1,CALLPNAM        SAVE POINTER                 @DL29ZCJ 14832529
006334 9102 9078      00078         7140+SCANEQY  TM    ENTRYC,ACTIVE      SET CC                       @DL29ZCJ 14836929
006338 07F8                        7141+         BR    R8                 EXIT TO CALLER               @DL29ZCJ 14841329
                                   7142+*                                                              @DL29ZCJ 14845729
                                   7143+*        SCAN THE LINK DIRECTORY, IF ONE HAS BEEN SET UP      @DL29ZCJ 14850129
                                   7144+*                                                              @DL29ZCJ 14900129
00633A D704 9090 9090 00090 00090  7145+SCANLINK XC    WCCHHR,WCCHHR      CLEAR SEEK ADDRESS           @DL29ZCJ 14950129
006340 920B 9058      00058         7146+         MVI   CILSET,SYSCLB      SET PCIL LIBRARY TYPE        @DL29ZCJ 15050129
006344 BF87 9064                00064  7147+         ICM   R8,M7,FTPCIL       PNT TO PARTITION FTTAB ENTRY @DL29ZCJ 15100129
006348 4770 626C      06354         7148+         BNZ   SCANL1             BRANCH IF PCIL ASSIGNED      @DL29ZCJ 15150129
00634C 9206 9058      00058         7149+         MVI   CILSET,SYSRES      SET SYSRES LIBRARY TYPE      @DL29ZCJ 15250129
006350 5880 07E8                007E8  7150+         L     R8,AFTTAB          POINT TO SYSRES FTTAB ENTRY  @DL29ZCJ 15300129
006354 D603 9090 8010 00090 00010  7151+SCANL1   OC    WCCHH,LINKDIR+2    SET LINK SEEK ADDRESS        @DL29ZCJ 15350129
00635A 0784                        7152+         BZR   R4                 RETURN IF NO LINK SET UP     @DL29ZCJ 15400129
00635C 4870 067E                0067E  7153+         LH    R7,PIK             GET THE PIK                  @DA02796 15410131
006360 4A70 06CC                006CC  7154+         AH    R7,YPIB2TAB        POINT TO PIB EXTENSION       @DA02796 15420131
                                   7155+         DROP  RA                 CORRECT BASE                 @DM11306 15422131
                            00000  7156+         USING PIBADR,R7                                       @DA02796 15430131
006364 BF73 7000                00000  7157+         ICM   R7,M3,PIBCOMRA     GET CORRECT COMREG ADDR.     @DA02796 15440131
                            00000  7158+         USING COMREG,R7                                       @DM11453 15442131
006368 9120 7039      00039         7159+         TM    JCSW2,ALLOWEX      IS ALLOW EXEC BIT ON ?       @DM11453 15444131
00636C 0784                        7160+         BZR   R4                 NO                           @DA02796 15446131
                                   7161+         DROP  R7                 DROP COMREG BASE             @DM11453 15446531
                            00000  7162+         USING PIBADR,RA          RESTORE BASE                 @DM11306 15448131
                            00000  7163+         USING CCWADR,R7          REGISTERS                    @DM11306 15448531
00636E 47F0 630A      063F2         7164+         B     SCANDIR1           SCAN LINK DIRECTORY          @DL29ZCJ 15450129
                                   7165+*                                                              @DL29ZCJ 15550129
                                   7166+*        SCAN THE MAIN PRIVATE CORE IMAGE LIBRARY DIRECTORY,   @DL29ZCJ 15600129
                                   7167+*        IF IT HAS BEEN ASSIGNED                               @DL29ZCJ 15650129
                                   7168+*                                                              @DL29ZCJ 15700129
006372 BF87 9064                00064  7169+SCANPCIL ICM   R8,M7,FTPCIL       PNT TO PARTITION FTTAB ENTRY @DL29ZCJ 15750129
006376 0784                        7170+         BZR   R4                 RETURN IF PCIL NOT ASSIGNED  @DL29ZCJ 15800129
006378 D203 9090 800A 00090 0000A  7171+         MVC   WCCHH,CATALDIR+2   SET PCIL SEEK ADDRESS        @DL29ZCJ 15850129
00637E 920B 9058      00058         7172+         MVI   CILSET,SYSCLB      SET PCIL LIBRARY TYPE        @DL29ZCJ 15900129
006382 47F0 62CC      063B4         7173+         B     SCANDIR            SCAN PCIL DIRECTORY          @DL29ZCJ 15950129
                                   7174+*                                                              @DL29ZCJ 16050129
                                   7175+*        SCAN THE SYSTEM DIRECTORY LIST(SDL), THEN             @DL29ZCJ 16060129
                                   7176+*        SCAN THE MAIN SYSTEM CORE IMAGE LIBRARY DIRECTORY     @DL29ZCJ 16100129
                                   7177+*                                                              @DL29ZCJ 16150129
                            06386  7178+SCANSCIL EQU   *                                              @DL29ZCJ 16160129
006386 9206 9058      00058         7179+         MVI   CILSET,SYSRES      SET SYSRES LIBRARY TYPE      @DL29ZCJ 16300129
00638A 9140 07EC      007EC         7180+         TM    ASVA,SDLBUILT      HAS SVA BEEN BUILT?          @DL29ZCJ 16310429
00638E 4780 62C2      063AA         7181+         BZ    NOSVA              NO, BYPASS SDL SEARCH        @DL29ZCJ 16310729
006392 9101 097F      0097F         7182+         TM    FCHSW,SYSATTN      FETCH FOR NON-USER           @DA00096 16311030
006396 4710 62C2      063AA         7183+         BO    NOSVA              YES,BYPASS SDL SCAN          @DA00096 16311330
                                   7184+* THIS IS BECAUSE A PAGEFAULT CAUSES SYSTEM-BLOW-UP            @DA00096 16311630
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00639A 5870 07EC            007EC  7185+          L     R7,ASVA             POINT TO SVA AREA            @DL29ZCJ 16312129
                            00000  7186+          USING DSVA,R7             ADDRESSABILITY TO SVA HEADER @DL29ZCJ 16314129
00639E 5870 7008            00008  7187+          L     R7,VDSA             POINT TO SYSTEM LIST         @DL29ZCJ 16316129
                            00000  7188+          USING CCWADR,R7           RESTORE ORIGINAL USING       @DL29ZCJ 16318129
0063A2 4580 614C            06234  7189+          BAL   R8,SCANLIST         SCAN SDL                     @DL29ZCJ 16318529
0063A6 4770 649A      06582        7190+          BNZ   ENTRYFND            BRANCH IF ACTIVE ENTRY       @DL29ZCJ 16318929
0063AA 5880 07E8            007E8  7191+NOSVA     L     R8,AFTTAB           POINT TO SYSRES FTTAB ENTRY  @DL29ZCJ 16320129
0063AE D203 9090 800A 00090 0000A  7192+          MVC   WCCHH,CATALDIR+2    SET SCIL SEEK ADDRESS        @DL29ZCJ 16330129
                                   7193+*                                                                 @DL29ZCJ 16350129
                                   7194+*         THIS ROUTINE SCANS THE CHOSEN DIRECTORY FOR THE         @DL29ZCJ 16400129
                                   7195+*         REQUESTED PHASE.  SINCE ENTRIES ARE ORDERED IN THE      @DL29ZCJ 16450129
                                   7196+*         DIRECTORY, AND THE HIGH KEY IN THE BLOCK IS IN THE      @DL29ZCJ 16500129
                                   7197+*         DISK RECORD KEY FIELD, ONLY ONE DIRECTORY BLOCK         @DL29ZCJ 16550129
                                   7198+*         NEED BE READ AND SCANNED TO FIND THE ENTRY OR           @DL29ZCJ 16600129
                                   7199+*         DETERMINE THAT IT IS NOT IN THE DIRECTORY.              @DL29ZCJ 16650129
                                   7200+*                                                                 @DL29ZCJ 16700129
                            063B4  7201+SCANDIR   EQU   *                    SCAN DIRECTORY               @DL29ZCJ 16710129
0063B4 BF77 8001            00001  7202+          ICM   R7,M7,SLDDIR        POINT TO SECOND LEVEL DIR    @DL29ZCJ 16720129
0063B8 4780 630A      063F2        7203+          BZ    SCANDIR1            BRANCH IF NONE SPECIFIED     @DL29ZCJ 16730129
0063BC BF3F 9090            00090  7204+          ICM   R3,M15,WCCHHR        PICK UP BASE SEEK ADDRESS    @DL29ZCJ 16740129
0063C0 4177 0002            00002  7205+          LA    R7,D2(R7)           POINT TO FIRST SLD ENTRY     @DL29ZCJ 16742129
0063C4 D507 9068 7000 00068 00000  7206+SCANDIR2 CLC   CALLNAME,D0(R7)      IS PHASE ON THIS TRACK?      @DL29ZCJ 16744129
0063CA 47D0 6306      063EE        7207+          BNH   SCANDIR4            YES, BRANCH                  @DL29ZCJ 16746129
0063CE 4A30 B6DA            016DA  7208+          AH    R3,H1               INCREMENT HEAD ADDRESS       @D34SDVB 16748134
0063D2 BD33 8004            00004  7209+          CLM   R3,M3,TCDIR         END OF CYLINDER ?            @DL29ZCJ 16748629
0063D6 4740 62FE      063E6        7210+          BL    SCANDIR3            NO, BRANCH                   @DL29ZCJ 16748929
0063DA 8A30 0010            00010  7211+          SRA   R3,L16              SHIFT TO CYLINDER ADDRESS    @DL29ZCJ 16749329
0063DE 4A30 B6DA            016DA  7212+          AH    R3,H1               INCREMENT CYLINDER ADDRESS   @D34SDVB 16749734
0063E2 8B30 0010            00010  7213+          SLA   R3,L16              SET HEAD ADDRESS = ZERO      @DL29ZCJ 16757734
0063E6 4177 0008            00008  7214+SCANDIR3 LA    R7,D8(R7)           POINT TO NEXT SLD ENTRY      @DL29ZCJ 16760734
0063EA 47F0 62DC      063C4        7215+          B     SCANDIR2            CONTINUE COMPARE             @DL29ZCJ 16763734
0063EE BE3F 9090            00090  7216+SCANDIR4 STCM  R3,M15,WCCHHR       STORE STARTING TRACK ADDRESS @DL29ZCJ 16766729
0063F2 4170 B788            01788  7217+SCANDIR1 LA    R7,SEEKCCW1         SET THE CCB TO POINT TO      @DL29ZCJ 16783429
0063F6 5070 B6BC            016BC  7218+          ST    R7,TXTCCBSK         THE DIRECTORY SRCH CCW CHAIN @DL29ZCJ 16800129
0063FA D207 B63C 9068 0163C 00068  7219+          MVC   SRCHNAME,CALLNAME   SET ARG FOR SEARCH KEY       @DL29ZCJ 16810129
006400 4170 B7D8            017D8  7220+          LA    R7,DIRREAD          POINT TO DIRECTORY READ      @DL29ZCJ 16850129
006404 BD07 B8A5            018A5  7221+          CLM   R0,M7,ACRTTRNS+D1   FETCH FOR CRT                @DY14428 21410034
006408 4770 6328      06410        7222+          BNE   NOCRTFCH .          NO, CONTINUE                       AS 21415028
00640C 4170 B810            01810  7223+          LA    R7,CRTDIR .         READ DIRECTORY INTO C-AREA         AS 21420028
                            06410  7224+NOCRTFCH EQU   * .                  CONTINUE                           AS 21425028
006410 BE77 B7D1            017D1  7225+          STCM  R7,M7,TICCCW3+1     SET READ CCW ADDRESS         @DL29ZCJ 21480029
006414 D204 B6CE 9090 016CE 00090  7226+          MVC   CCHHR(L5),WCCHHR    SET CCHHR FOR READ           @DL29ZCJ 21490029
00641A D204 B6D3 9090 016D3 00090  7227+          MVC   CCHHR2(L5),WCCHHR   SET CCHHR FOR READ           @DA00398 21490430
006420 5810 B808            01808  7228+          L     R1,RPSSSECT         GET RPS CCW                  @DL30SSM 21492030
006424 9200 B6D8      016D8        7229+          MVI   SECTAREA,ZERO       SET SECTOR VALUE TO ZERO     @DL30SSM 21493030
006428 91FF 8006      00006        7230+          TM    BTDIR,XFF           IS PHASE ON AN RPS DEVICE    @DL30SSM 21494030
00642C 4770 634C      06434        7231+          BNZ   DRFCH              YES, RESET NOTHING           @DL30SSM 21495030
006430 5810 B800            01800  7232+          L     R1,RPSTIC1          OTHERWISE, GET TIC CCW       @DL30SSM 21496030
                            06434  7233+DRFCH    EQU   *                                                @DL30SSM 21497030
006434 5010 B7B0            017B0  7234+          ST    R1,RPSCCW1          SET IT AS TIC OR SET SECT    @DL30SSM 21498030
006438 45E0 638A            06472  7235+          BAL   RE,READ             FIND AND READ DIRECTORY BLK  @DL29ZCJ 21500029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00643C 5820 B7D0            017D0  7236+         L     R2,TICCCW3 .                                    @DL29ZCJ 21501029
006440 5822 0000            00000  7237+         L     R2,D0(R2) .       POINT R2 TO DIRECTORY BUFFER  @DL29ZCJ 21501529
                            00000  7238+         USING DIRECTRY,R2       ADDRESSABILITY TO DIR. ENTRY  @DL29ZCJ 21653029
006444 4170 B760            01760  7239+         LA    R7,SEEKCCW        RESTORE TXTCCB CCW LIST       @DL29ZCJ 21703029
006448 5070 B6BC            016BC  7240+         ST    R7,TXTCCBSK       POINTER FOR TEXT RECORD       @DL29ZCJ 21753029
00644C 4122 0002            00002  7241+         LA    R2,D2(R2)         POINT TO FIRST ENTRY          @DL29ZCJ 21803029
006450 1B33                        7242+         SR    R3,R3             NO INCREMENT FIRST TIME       @DL29ZCJ 21853029
006452 1A23                        7243+BUMP     AR    R2,R3             POINT TO NEXT ENTRY           @DL29ZCJ 22053029
006454 1B33                        7244+         SR    R3,R3             CLEAR FOR INSERT              @DL29ZCJ 22063029
006456 4330 200B            0000B  7245+         IC    R3,DIRN           NO. OF HALFWORDS, VAR. FIELD  @DL29ZCJ 22073029
00645A 4133 300C            0000C  7246+         LA    R3,DIRTT-DIRNAME(R3,R3) OFFSET TO NEXT ENTRY    @DL29ZCJ 22083029
00645E D507 2000 9068 00000 00068  7247+         CLC   DIRNAME(L8),CALLNAME    COMPARE PHASENAME       @DL29ZCJ 22103029
006464 4740 636A      06452        7248+         BL    BUMP              TRY NEXT ENTRY                @DL29ZCJ 22153029
006468 4780 6484      0656C        7249+         BE    PHASEFND          THIS IS THE ONE               @DL29ZCJ 22203029
00646C 07F4                        7250+         BR    R4                NOT IN THIS DIRECTORY         @DL29ZCJ 22253029
                                   7251+         DROP  R2                AVOID R1 USING CONFLICT       @DL29ZCJ 22253329


                                   7253+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 22701028
                                   7254+*                                                                * 22702028
                                   7255+*        READ DIRECTORY BLOCKS OR PHASE.                         * 22703028
                                   7256+*                                                                * 22704028
                                   7257+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 22705028

00646E BE77 B781            01781  7259+READD    STCM  R7,M7,TICCCW2+1 .  INIT. TIC TO CORRECT CCW          LAV 22800028
                            06472  7260+READ     EQU   * .                READ ROUTINE                          22900028
006472 D200 B6BB 9058 016BB 00058  7261+         MVC   CILTYPE,CILSET     SET LIBRARY TYPE              @DL29ZCJ 22920029
006478 4110 B6B4            016B4  7262+READ1    LA    R1,TXTCCB .        SET POINTER TO FETCH CCB              23400029
00647C D204 B6D3 B6CE 016D3 016CE  7263+         MVC   CCHHR2(L5),CCHHR   EQUAL SEEK BUCKETS            @DA01214 23402030
                                   7264+* SUPERVISOR - SYSIO - 5745-SC-SUP - REL. 34.0                  @D34SDAP 00500034
006482 0A0F                        7265+         SVC   15                 HEAD QUEUE I/O REQUEST        @D34SDAP 01860034
006484 9180 1002      00002        7266+         TM    2(1),X'80'         HAS TRAFFIC BIT BEEN POSTED   @D34SDAP 02300034
006488 4710 63A6      0648E        7267+         BO    *+6                YES                                   02400028
00648C 0A07                        7268+         SVC   7                  NO, WAIT FOR I/O COMPLETE     @D34SDAP 02500034
00648E D204 B6CE B6D3 016CE 016D3  7269+         MVC   CCHHR(L5),CCHHR2   CORRECT SEEK FIELD             @DA00398 23407030
006494 9120 1002      00002        7270+         TM    CCBCOM1,DISERR .   UNRECOVERABLE I/O ERROR       @DM01647 23410028
006498 4780 63C8      064B0        7271+         BZ    IOCOMP .           NO                            @DM01647 23435028
00649C 9506 B6BB      016BB        7272+         CLI   CILTYPE,SYSRES .   FETCH FROM SYSTEM CIL         @DM01647 23440028
0064A0 4780 0B14      00B14        7273+         BE    FTCHIOER .         YES,HARD WAIT                 @DM01647 23445028
0064A4 4120 B760            01760  7274+         LA    R2,SEEKCCW         RESTORE NEXTCCB CCW LIST      @DA06970 23455032
0064A8 5020 B6BC            016BC  7275+         ST    R2,TXTCCBSK        POINTER FOR TEXT RECORD       @DA06970 23457032
0064AC 47F0 09FE      009FE        7276+         B     ERR2B .            CANCEL DUE TO PCIL IO ERROR   @DM05139 23465029


                            064B0  7279+IOCOMP   EQU   *                  I/O COMPLETE                  @DL29ZCJ 23950029
0064B0 9120 B6B7      016B7        7280+         TM    TXTCCB+3,EOC .     WAS END OF CYLINDER POSTED?           24100029
0064B4 078E                        7281+         BCR   Z,RE .             NO,RETURN                             24200028
0064B6 4870 B6CE            016CE  7282+         LH    R7,CCHHR .         GET OLD CYLINDER NUMBER           LAV 24300028
0064BA 4177 0001            00001  7283+         LA    R7,ONE(R7)         ADD 1                                 24400028
0064BE 4070 B6CE            016CE  7284+         STH   R7,CCHHR .         STORE NEW CYLINDER NUMBER         LAV 24500028
0064C2 D201 B6D1 B6DA 016D1 016DA  7285+         MVC   HR(L2),H1  .       RESET HEAD AND RECORD NUMBER  @D34SDVB 24600034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0064C8 D204 B6D3 B6CE 016D3 016CE  7286+          MVC   CCHHR2(L5),CCHHR   EQUAL SEEK BUCKETS          @DA01214 24600430
0064CE 91FF 9095      00095        7287+          TM    WSS,XFF             IS SET SECTER TO BE NOP'ED  @DM08045 24601430
0064D2 4710 63F2      064DA        7288+          BO    PHNFND4A            YES, MODIFY CCW CHAIN      @DM08045 24601830
0064D6 9200 B6D8      016D8        7289+          MVI   SECTAREA,ZERO      NEW SECT IS ALWAYS 0 AT EOC  @DL30SSM 24602030
                            064DA  7290+PHNFND4A EQU   *                                              @DM08045 24602430
0064DA 5870 B6C0            016C0  7291+          L     R7,NEXTCCW .       POINT R6 TO NEXT CCW TO BE EXECUTED   24700028
0064DE 4B70 08F2            008F2  7292+          SH    R7,H8 .            POINT BACK TO TROUBLECCW              24800028
0064E2 9592 7000      00000        7293+          CLI   CCWCODE,READCNT .  STRING BROKEN BEFORE READCOUNT?       24900028
0064E6 4770 6386      0646E        7294+          BNE   READD .            NO,COMPLETE CURRENT I/O PROGRAM   LAV 25000028
0064EA 07FE                        7295+          BR    RE .               SCAN LAST RECORD(S)               LAV 25100028

                                   7297+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 27201028
                                   7298+*                                                                     * 27202028
                                   7299+*         EXIT HERE IF PHASE NOT FOUND                                * 27203028
                                   7300+*                                                                     * 27204028
                                   7301+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 27205028

                            064EC  7303+PHNFND   EQU   *                                              @DL29ZCJ 27256129
0064EC 9539 B790      01790        7304+          CLI   FTCHNOP1,SEARCHA   IS NO-OP CCW CHANGED        @DA04246 27306132
0064F0 4780 6418      06500        7305+          BE    SETNOOP            BR IF YES                   @DA04246 27356132
0064F4 9239 B790      01790        7306+          MVI   FTCHNOP1,SEARCHA   SET SRCH HOME ADDR EQ       @DA04246 27406132
0064F8 9208 B798      01798        7307+          MVI   FTCHNOP2,TIC       SET TIC                     @DA04246 27408132
0064FC 47F0 60D8      061C0        7308+          B     NOCHK              RETRY FETCH                 @DA10823 27410134
006500 9203 B790      01790        7309+SETNOOP  MVI   FTCHNOP1,NOOP      SET NO-OP COMM. CODE        @DA04246 27412132
006504 9203 B798      01798        7310+          MVI   FTCHNOP2,NOOP      SET NO-OP COMM. CODE        @DA04246 27412532
006508 5850 9058            00058  7311+TESTSVC  L     R5,FCHRET          GET RETURN ADDRESS          @DL29ZCJ 27414029
00650C BD53 B6DA            016DA  7312+          CLM   R5,M3,H1           SVC 23 OR SVC 51 ?          @D34SDVB 27420034
006510 4720 6434      0651C        7313+          BH    PHNFND3 .          BRANCH IF NOT                    478 27450028
006514 5890 086C            0086C  7314+          L     R9,DISPAD          COPY EXIT POINTER           @DM05356 27500033
006518 47F0 0B60      00B60        7315+          B     FCHEXT .                                             KR 28000028

                            0651C  7317+PHNFND3  EQU   * .                NO SVC 23 OR SVC 51              LAV 28200028
                                   7318+*         THESE FOUR STATEMENTS WILL BE USED IF THE FETCH-LOAD TRACE     28500029
                                   7319+*         OF PDAIDS IS ACTIVE AND THE PHASE IS NOT FOUND.                28600029
00651C 1B11                        7320+          SR    R1,R1 .            LOAD PHASE NOT FOUND CONDITION   LAV 29200028
00651E 0610                        7321+          BCTR  R1,R0 .            IN LOAD ADDRESS                  435 29300028
006520 1801                        7322+          LR    R0,R1 .            AND ENTRY ADDRESS                    29400028
006522 47F0 6690      06778        7323+          B     PDFLTHK2 .         GO TO F/L TRACE HOOK             LAV 29500028

                            06526  7325+PHNFND4  EQU   * .                                                Z0785 29800428
006526 D506 9068 B898 00068 01898  7326+          CLC   CALLNAME(L7),CRTNAME C-TRANSIENT FOUND               AP 29801028
00652C 4780 0B08      00B08        7327+          BE    CRTNFND .          YES, HARD WAIT CONDITION          AP 29801528
006530 5810 905C            0005C  7328+          L     R1,CALLPNAM        POINT TO DIR ENTRY          @DL29ZCJ 30000629
006534 1B00                        7329+          SR    R0,R0              SET ENTRY POINT TO 0        @DM05063 30002629
006536 9109 9060      00060        7330+          TM    LISTFLAG,FNDENTRY+NTXTNTRY   DE + NO TEXT ?     @DA09557 30006633
00653A 4710 646C      06554        7331+          BO    NFNDNTXT           YES                         @DM05063 30009633
00653E 5810 06F8            006F8  7332+          L     R1,AERBLOC         POINT TO ERRQNAME           @DM11640 30011633
006542 D502 9068 1000 00068 00000  7333+          CLC   CALLNAME(L3),D0(R1)  $$A                       @DM11640 30012033
006548 4780 0B00      00B00        7334+          BE    HARDW$$A           YES, CAUSE HARD WAIT        @DM11640 30012433
00654C 5810 905C            0005C  7335+          L     R1,CALLPNAM        POINT TO DIR ENTRY          @DA09557 30020133
006550 47F0 6478      06560        7336+          B     PHNFND5            NO, CANCEL USER             @DA09557 30028433
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            00000  7337+          USING DIRECTRY,R1        ADDRESSABILITY TO ENTRY      @DL29ZCJ 30036133
006554 9606 1010      00010        7338+NFNDNTXT  OI    DIRC,NOTFND+ACTIVE SET NOT FOUND, ACTIVE FLAGS  @DA09557 30043833
006558 5890 9058            00058  7339+          L     R9,FCHRET          SET EXIT ADDRESS             @DM05138 30051533
00655C 47F0 0B4C      00B4C        7340+          B     FCHEXIT            EXIT TO CALLER               @DL29ZCJ 30059233
                            00000  7341+          USING CCBADR,R1          RESTORE ORIGINAL USING       @DL29ZCJ 30066933
                            06560  7342+PHNFND5   EQU   *                                               @DM05063 30074629
006560 5890 A004            00004  7343+          L     R9,PIBSAVE         POINT TO USER SAVE AREA      @DM05063 30084629
006564 5010 9030            00030  7344+          ST    R1,SVER01          SET POINTER FOR $$BILSVC     @DM05063 30094629
006568 47F0 09EC      009EC        7345+          B     ERR22              ERROR EXIT                   @DM05063 30096629

                                   7347+********       CALCULATE LOAD POINT AND ENTRY POINT OF PHASE        LAV 30200028

                            0656C  7349+PHASEFND EQU   *                                               @DL29ZCJ 30400029
00656C 9203 B790      01790        7350+          MVI   FTCHNOP1,NOOP      SET CCW TO NO-OP             @DA04246 30410032
006570 9203 B798      01798        7351+          MVI   FTCHNOP2,NOOP      SET CCW TO NO-OP             @DA04246 30420032
006574 4140 9068            00068  7352+          LA    R4,CALLNAME        POINT TO ENTRY SAVE AREA     @DL29ZCJ 30423029
006578 4150 0022            00022  7353+          LA    R5,L'ENTRYSAV+8    ENTRY SAVE AREA LENGTH       @DL29ZCJ 30433029
00657C 0E42                        7354+          MVCL  R4,R2              SAVE DIRECTORY ENTRY         @DL29ZCJ 30435029
00657E 9708 9060      00060        7355+          XI    LISTFLAG,FNDENTRY  SET FOR INACTIVE ENTRY TEST  @DL29ZCJ 30435329
006582 9602 9078      00078        7356+ENTRYFND  OI    ENTRYC,ACTIVE      SET ENTRY ACTIVE BIT         @DL29ZCJ 30437029
006586 5880 07E8            007E8  7357+          L     R8,AFTTAB          POINT TO SCIL FTTAB ENTRY    @DL29ZCJ 30437329
00658A 950B 9058      00058        7358+          CLI   CILSET,SYSCLB      PHASE FOUND IN PCIL?         @DL29ZCJ 30441029
00658E 4770 64B2      0659A        7359+          BNE   PHFND1             NO, BRANCH                   @DL29ZCJ 30441429
006592 9608 9078      00078        7360+          OI    ENTRYC,PCIL        SET PCIL BIT                 @DL29ZCJ 30441829
006596 BF87 9064            00064  7361+          ICM   R8,M7,FTPCIL       POINT TO PCIL FTTAB ENTRY    @DL29ZCJ 30442129
                            0659A  7362+PHFND1    EQU   *                                               @DL29ZCJ 30442429
00659A D200 9086 8000 00086 00000  7363+          MVC   ENTRYK,CONDSDIR    SET CONDS COUNTER IN ENTRY   @DL29ZCJ 30445029
0065A0 5810 905C            0005C  7364+          L     R1,CALLPNAM        POINT TO PHASENAME           @DL29ZCJ 30445229
0065A4 9108 9060      00060        7365+          TM    LISTFLAG,FNDENTRY  PREVIOUS INACTIVE ENTRY?    @DL29ZCJ 30445529
0065A8 4770 64CA      065B2        7366+          BNZ   PHFND2             NO, BRANCH                   @DL29ZCJ 30445829
0065AC 1859                        7367+          LR    R5,R9              COPY WORK AREA POINTER       @DL29ZCJ 30445929
0065AE 4570 6580            06668  7368+          BAL   R7,MVENTRY         UPDATE INACTIVE ENTRY        @DL29ZCJ 30446129
                            065B2  7369+PHFND2    EQU   *                                               @DL29ZCJ 30446829
0065B2 4830 9074            00074  7370+          LH    R3,ENTRYTT         NUMBER OF TEXT BLOCKS        @DL29ZCJ 30446929
0065B6 0630                        7371+          BCTR  R3,R0              IGNORE LAST BLOCK            @DL29ZCJ 30448929
0065B8 8B30 000A            0000A  7372+          SLA   R3,L10             NO. OF BYTES (1K PER BLOCK)  @DL29ZCJ 30449629
0065BC 4A30 9076            00076  7373+          AH    R3,ENTRYLL         TOTAL INCL. LAST BLOCK       @DL29ZCJ 30450029
                                   7374+*         SET DISK ADDRESS OF FIRST TEXT BLOCK                    @DL29ZCJ 30496029
0065C0 18F3                        7375+          LR    RF,R3 .            SAVE LENGTH OF PHASE               KR 30497029
0065C2 D200 9094 9072 00094 00072  7376+          MVC   WR(L1),ENTRYRN     SET RECORD NUMBER (R)        @DL29ZCJ 30547029
0065C8 92FF 9095      00095        7377+          MVI   WSS,XFF            ASSUME NON RPS DEVICE        @DL30SSM 30549030
0065CC 91FF 8006      00006        7378+          TM    BTDIR,XFF          IS IT AN RPS DEVICE          @DL30SSM 30550030
0065D0 4780 6502      065EA        7379+          BZ    NIXRPS             NO, LEAVE SECT VAL AS IS     @DL30SSM 30551030
0065D4 1830                        7380+          LR    R3,R0              SAVE CONTENTS OF REG 0       @DL30SSM 30552030
0065D6 1821                        7381+          LR    R2,R1              SAVE CONTENTS OF REG 1       @DL30SSM 30553030
0065D8 1B00                        7382+          SR    R0,R0              ZERO REG ZERO                @DL30SSM 30554030
0065DA 4300 9094            00094  7383+          IC    R0,WR              GET RECORD NUMBER            @DL30SSM 30555030
0065DE 45E0 6594            0667C  7384+          BAL   RE,SECTFCH         GO CALCULATE SECTOR VALUE    @DL30SSM 30556030
0065E2 4200 9095            00095  7385+          STC   R0,WSS             STORE SECTOR VALUE           @DL30SSM 30557030
0065E6 1803                        7386+          LR    R0,R3              RESTORE R0                   @DL30SSM 30558030
0065E8 1812                        7387+          LR    R1,R2              RESTORE R1                   @DL30SSM 30559030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            065EA  7388+NIXRPS   EQU   *                                                    @DL30SSM 30560030
0065EA 4830 9070            00070  7389+         LH    R3,ENTRYTTR          RELATIVE TRACK (TT)             @DL29ZCJ 30597029
0065EE 4A30 800C            0000C  7390+         AH    R3,CATHHDIR          PLUS BASE HEAD NUMBER           @DL29ZCJ 30647029
0065F2 1B22                        7391+         SR    R2,R2                CLEAR FOR DIVIDE                @DL29ZCJ 30697029
0065F4 4850 8004            00004  7392+         LH    R5,TCDIR             TRACKS/CYLINDER                 @DL29ZCJ 30797029
0065F8 1D25                        7393+         DR    R2,R5                R2=HD. NO., R3= REL. CYL.       @DL29ZCJ 30847029
0065FA 4020 9092            00092  7394+         STH   R2,WHHR              SET HEAD NUMBER (HH)            @DL29ZCJ 30897029
0065FE BF2F 8008            00008  7395+         ICM   R2,M15,CATALDIR      GET BASE BBCC                   @DL29ZCJ 30947029
006602 1A32                        7396+         AR    R3,R2                FORM CYLINDER ADDRESS           @DL29ZCJ 30957029
006604 4030 9090            00090  7397+         STH   R3,WCCHHR            SET CYLINDER (BBCC)             @DL29ZCJ 30997029
006608 BF27 907A            0007A  7398+         ICM   R2,M7,ENTRYPPP       LOAD POINT                      @DL29ZCJ 31047029
00660C BF37 907D            0007D  7399+         ICM   R3,M7,ENTRYEEE       ENTRY POINT                     @DL29ZCJ 31097029
006610 9140 9078      00078       7400+         TM    ENTRYC,RELPHASE .    BRANCH IF NO                    @DL29ZCJ 31800029
006614 4780 655A      06642       7401+         BZ    TSTSVC .             RELOCATABLE PHASE                    478 31900028
006618 4870 06AA            006AA  7402+         LH    R7,YPIBTAB           ADDRESS OF ATTN PIB             @DL29ZCF 32300029
00661C 4840 067E            0067E  7403+         LH    R4,PIK               DISPL TO PARTITION PIB          @DL29ZCF 32310129
006620 5844 7004            00004  7404+         L     R4,D4(R4,R7)         GET ADDRESS OF SAVE AREA        @DL29ZCF 32320029
006624 BD47 0871            00871  7405+         CLM   R4,M7,LTAREA2+1      REQUESTOR IN LTA                @DA05760 32340032
006628 4770 6548      06630       7406+         BNE   NOSWAP .             NOT SWAPPED                     @DM03038 32360028
00662C 5847 0008            00008  7407+         L     R4,D8(R7) .          TAKE CORRECT SAVE AREA ADDR.    @DM03038 32380028
006630 4144 0078            00078  7408+NOSWAP   LA    R4,L88+1*1*L32(R4)           SKIP SAVEAREA                LAV 32400028
006634 1B55                        7409+         SR    R5,R5                CLEAR FOR INSERT                @DL29ZCJ 32450029
006636 BF57 9083            00083  7410+         ICM   R5,M7,ENTRYAAA       SUBTRACT ADDRESS OF PARTITION   @DL29ZCJ 32500029
00663A 1B45                        7411+         SR    R4,R5                AT LINKAGE EDITING TIME         @DL29ZCJ 32550029
00663C 1A24                        7412+         AR    R2,R4 .              RELOCATE LOAD POINT                  LAV 32900028
00663E 1A34                        7413+         AR    R3,R4 .              RELOCATE ENTRY POINT                 LAV 33000028
006640 1B42                        7414+         SR    R4,R2 .              PREPARE FOR OVERRIDING LOAD ADDR.    LAV 33100028
006642 5850 9058            00058  7415+TSTSVC   L     R5,FCHRET .          GET RETURN ADDRESS                    KR 33520029
006646 4170 0B60            00B60  7416+         LA    R7,FCHEXT            SET FETCH EXIT                  @DL29ZCJ 33600629
00664A BD53 B6DA            016DA  7417+         CLM   R5,M3,H1  .          SVC 23 OR SVC 51 ?              @D34SDVB 33600934
00664E 4720 65CA      066B2       7418+         BH    GETPHASE .           BRANCH IF NOT                        478 33601229
006652 1880                        7419+         LR    R8,R0 .              COPY USER POINTER                    LAV 33601529
006654 1859                        7420+         LR    R5,R9                COPY WORK AREA POINTER          @DL29ZCJ 33601629
006656 5890 086C            0086C  7421+         L     R9,DISPAD            COPY EXIT POINTER               @DM05356 33601833
00665A 4780 6580      06668       7422+         BE    MVENTRY              BRANCH IF SVC51                 @DL29ZCJ 33900029
00665E BE27 8001            00001  7423+         STCM  R2,M7,D1(R8) .       MOVE LOAD ADDRESS TO USER AREA       502 34100028
006662 9283 A000      00000       7424+         MVI   PIBFLG,READY .       ACTIVATE USER TASK                   LAV 34200028
006666 07F7                        7425+         BR    R7                   EXIT FETCH                      @DL29ZCJ 34300029

                            06668  7427+MVENTRY  EQU   *                    MOVE ENTRY TO USER AREA         @DL29ZCJ 34550029
                            00000  7428+         USING DIRECTRY,R1          USER'S DIRECTORY ENTRY          @DL29ZCJ 34600029
                                   7429+         DROP  R9                   RELEASE SVEARA POINTER          @DL29ZCJ 34602029
                            00000  7430+         USING SVEARA,R5            SVEARA POINTER FOR MOVE RTN.    @DL29ZCJ 34604029
006668 1B33                        7431+         SR    R3,R3                CLEAR FOR INSERT                @DL29ZCJ 34610029
00666A 4330 100B            0000B  7432+         IC    R3,DIRN              REQUESTED LENGTH IN HALFWORDS   @DL29ZCJ 34620029
00666E 4230 5073            00073  7433+         STC   R3,ENTRYN            PUT IN AREA TO BE MOVED         @DL29ZCJ 34630029
006672 4133 3003            00003  7434+         LA    R3,DIRTT-DIRTTR-1(R3,R3)     TOTAL MOVE LENGTH        @DL29ZCJ 34632029
006676 4430 65C4            066AC  7435+         EX    R3,ENTRYMV           MOVE TO USER AREA               @DL29ZCJ 34634029
                            0667A  7436+PCKADR1D  EQU   *                    PROGR CHECK HERE IF R1 INV      @DL29ZCF 34636029
00667A 07F7                        7437+         BR    R7                   EXIT                            @DL29ZCJ 34640029
                                   7438+*                                                                   @DL30SSM 34642030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                         DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   7439+*        SET UP PARAMETERS AND BAL TO DETERMINE SECTOR VALUE   @DL30SSM 34643030
                                   7440+*                                                              @DL30SSM 34644030
                             0667C 7441+SECTFCH  EQU   *                                               @DL30SSM 34645030
00667C BF0C B7E6             017E6 7442+         ICM   R0,M12,BLOKSIZE    GET THE BLOCK SIZE           @DL30SSM 34646030
006680 BF18 8006             00006 7443+         ICM   R1,M8,BTDIR        GET THE DEVICE TYPE          @DL30SSM 34647030
006684 BF17 07F9             007F9 7444+         ICM   R1,M7,ARPSR+D1     GET PTR TO SECT CNVT RTN     @DL30SSM 34648030
                             0D0AC 7445+         USING SECTCAL,R1         ADDRESS SECT CONV ROUTINE    @DL30SSM 34648230
006688 4570 1006             0D0B2 7446+         BAL   R7,SCVRTBAL        GET GET SECTOR VALUE         @DL30SSM 34649030
                             00000 7447+         USING DIRECTRY,R1        RESTORE ADDRESSING           @DL30SSM 34649230
00668C 07FE                        7448+         BR    RE                 RETURN TO CALLER             @DL30SSM 34650030

                                   7450+*                                                              @DL30SSM 34652030
                                   7451+*        SET UP FETCH CCWS FOR RPS OR NON RPS                  @DL30SSM 34653030
                                   7452+*                                                              @DL30SSM 34654030
                             0668E 7453+RPSETCCW EQU   *                                               @DL30SSM 34655030
00668E 4710 65B6       0669E       7454+         BO    NORPSWS            BR IF NON RPS DEVICE         @DL30SSM 34656030
006692 5810 B808             01808 7455+         L     R1,RPSSSECT        GET SET SECTOR CCW           @DL30SSM 34657030
006696 9640 B7F4       017F4       7456+         OI    CNTCCW+D4,CC       SET COMM CHN TO RD SECT COMM @DL30SSM 34658030
00669A 47F0 65BE       066A6       7457+         B     RPSWS              GO STORE SECT SECT COMMAND   @DL30SSM 34659030
                             0669E 7458+NORPSWS  EQU   *                                               @DL30SSM 34660030
00669E 5810 B804             01804 7459+         L     R1,RPSTIC2         GET TIC COMMAND - NOOP S S   @DL30SSM 34661030
0066A2 94BF B7F4       017F4       7460+         NI    CNTCCW+D4,RPSNOCC  TURN OFF COMMAND CHANING     @DL30SSM 34662030
                             066A6 7461+RPSWS    EQU   *                                               @DL30SSM 34663030
0066A6 5010 B768             01768 7462+         ST    R1,RPSCCW2         STORE TIC OR SET SECTOR CCW  @DL30SSM 34664030
0066AA 07FE                        7463+         BR    RE                 RETURN TO CALLING ROUTINE    @DL30SSM 34665030
0066AC D200 1008 5070 00008 00070  7464+ENTRYMV  MVC   DIRTTR(D0),ENTRYSAV     MOVE DIR. INFO TO USER  @DL29ZCJ 34690029
                                   7465+         DROP  R5                 DROP MOVE RTN. SVEARA POINTER@DL29ZCJ 34740029
                             00000 7466+         USING SVEARA,R9          RESTORE FETCH SVEARA POINTER @DL29ZCJ 34790029
                             00000 7467+         USING CCBADR,R1          RESTORE ORIGINAL USING       @DL29ZCJ 34792029

                                   7469+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 34901028
                                   7470+*                                                                    * 34902028
                                   7471+*        LOAD THE PHASE.                                             * 34903028
                                   7472+*                                                                    * 34904028
                                   7473+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 34905028

0066B2 1810                        7475+GETPHASE LR    R1,R0 .            SAVE SUPPLIED LOAD ADDRESS IN R1  478 35100028
0066B4 4111 0000             00000 7476+         LA    R1,D0(R1) .        ZERO HIGH ORDER BYTE              435 35300028
0066B8 1201                        7477+         LTR   R0,R1              OVERRIDING LOAD ADDRESS?     @DL29ZCJ 35500029
0066BA 4780 65DA       066C2       7478+         BZ    SUPADDR            NO, BRANCH                   @DL29ZCJ 35550029
0066BE 1B12                        7479+         SR    R1,R2              - DIRECTORY LOAD ADDRESS     @DL29ZCJ 35600029
0066C0 1B02                        7480+         SR    R0,R2              - DIRECTORY LOAD ADDRESS     @DL29ZCJ 35650029
                             066C2 7481+SUPADDR  EQU   * .                                                  435 35950028
0066C2 1A03                        7482+         AR    R0,R3              + DIRECTORY ENTRY ADDRESS    @DL29ZCJ 35952029
0066C4 1A12                        7483+         AR    R1,R2              + DIRECTORY LOAD ADDRESS     @DL29ZCJ 35952429
0066C6 9101 9060       00060       7484+         TM    LISTFLAG,NTXTNTRY  NO TEXT, OR SVA PHASE?       @DL29ZCJ 35952829
0066CA 4710 6690       06778       7485+         BO    NOTEXT             YES, BRANCH                  @DL29ZCJ 35952929
0066CE 910F 097F       0097F       7486+         TM    FCHSW,USERMSK .    REQUEST FROM USER TASK ?           KR 35953028
0066D2 4770 65FA       066E2       7487+         BNZ   NOCHSW .           NO,DO NOT CHANGE FCHSW             KR 35956028
0066D6 5910 07E4             007E4 7488+         C     R1,EOCADDR         LOADADDR.WITHIN VIRTUAL PART @DM11453 35959031
0066DA 4720 65FA       066E2       7489+         BH    NOCHSW .           YES,DO NOT CHANGE FCHSW            KR 35962028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0066DE 9602 097F      0097F        7490+         OI    FCHSW,REALMSK .    INDICATE REQUEST FOR REAL STORAGE  KR 35965028
                            066E2  7491+NOCHSW   EQU   * .                                                    KR 35968028
                                   7493+*************************************************************************KR 35974028
                                   7494+*        RIGHT HALF-BYTE OF FCHSW IS ONE FOR ALL SYSTEM- AND ATTN-   KR 35977028
                                   7495+*        TASK REQUESTS AND TWO FOR USER REQUESTS WHICH CAUSE THE     KR 35980028
                                   7496+*        PHASE TO BE LOADED INTO REAL STORAGE. RIGHT HALF-BYTE OF    KR 35983028
                                   7497+*        FCHSW IS ZERO IN CASE THE PHASE IS LOADED INTO VIRTUAL      KR 35986028
                                   7498+*        STORAGE .                                                   KR 35989028
                                   7499+*************************************************************************KR 35992028

0066E2 1A41                        7501+         AR    R4,R1              CALCULATE RELOCATION FACTOR  @DL29ZCJ 36300029
0066E4 4780 6688      06770        7502+         BZ    SETREL             IF 0, BYPASS RLD SETUP       @DL29ZCJ 36350029
0066E8 9140 9078      00078        7503+         TM    ENTRYC,RELPHASE    RELOCATABLE PHASE?           @DL29ZCJ 36400029
0066EC 4710 660E      066F6        7504+         BO    SETRLD             YES, BRANCH                  @DL29ZCJ 36450029
0066F0 1B44                        7505+         SR    R4,R4              ZERO RELOCATION FACTOR       @DL29ZCJ 36500029
0066F2 47F0 6688      06770        7506+         B     SETREL             BYPASS RLD SETUP             @DL29ZCJ 36550029

                                   7508+* SET DISK ADDRESS AND STARTING POINTER FOR RLD ITEMS          @DL29ZCJ 36570029

0066F6 1B33                        7510+SETRLD   SR    R3,R3              CLEAR FOR INSERT             @DL29ZCJ 36590029
0066F8 4330 9094            00094  7511+         IC    R3,WR              GET REL. RECORD (TEXT START) @DL29ZCJ 36592029
0066FC 4A30 9074            00074  7512+         AH    R3,ENTRYTT         + NO. OF TEXT BLOCKS         @DL29ZCJ 36594029
006700 0630                        7513+         BCTR  R3,0               MINUS ONE FOR DIVIDE         @DL29ZCJ 36594429
006702 4820 9076            00076  7514+         LH    R2,ENTRYLL         NO. OF TEXT BYTES, LAST BLOCK@DL29ZCJ 36596029
006706 4122 0003            00003  7515+         LA    R2,D3(R2)          +3 FOR ALIGNMENT             @DM05233 36596429
00670A 5420 B648            01648  7516+         N     R2,ALIGNPTR        ALIGN TO FULL WORD           @DM05233 36596829
00670E 4B20 B7E6            017E6  7517+         SH    R2,BLOKSIZE        LAST BLOCK TEXT ONLY?        @DL29ZCJ 36598029
006712 4780 6634      0671C        7518+         BZ    FULLBLOK           YES, BRANCH                  @DL29ZCJ 36598429
006716 0630                        7519+         BCTR  R3,0               REL. RECORD, LAST TEXT BLOCK @DL29ZCJ 36598829
006718 4A20 B7E6            017E6  7520+         AH    R2,BLOKSIZE        RESET TO NEXT FULLWORD       @DM05233 36599229
00671C 5A20 B7E0            017E0  7521+FULLBLOK A     R2,RDCCW           + RLD BUFFER ADDRESS         @DL29ZCJ 36599829
006720 BE2F 9070            00070  7522+         STCM  R2,M15,RLDSW       SET RLD SW AND STARTING ADDR @DL29ZCJ 36622129
006724 1B22                        7523+         SR    R2,R2              CLEAR FOR DIVIDE             @DL29ZCJ 36633229
006726 1852                        7524+         LR    R5,R2              ZERO REG 5                   @DL30SSM 36634230
006728 4350 8007            00007  7525+         IC    R5,BTDIR+D1        BLOCKS/TRACK                 @DL30SSM 36643230
00672C 1D25                        7526+         DR    R2,R5              R2=RECORD-1, R3=REL. TRACK   @DL29ZCJ 36653229
00672E 4122 0001            00001  7527+         LA    R2,1(R2)           ACTUAL RECORD NUMBER         @DL29ZCJ 36655229
006732 4220 908E            0008E  7528+         STC   R2,RR              RLD RECORD NUMBER            @DL29ZCJ 36663229
006736 4A30 9092            00092  7529+         AH    R3,WHHR            + TEXT BASE TRACK            @DL29ZCJ 36665229
00673A 1B22                        7530+         SR    R2,R2              CLEAR FOR DIVIDE             @DL29ZCJ 36665629
00673C 4850 8004            00004  7531+         LH    R5,TCDIR           TRACKS/CYLINDER              @DL29ZCJ 36666029
006740 1D25                        7532+         DR    R2,R5              R2=TRACK, R3=REL. CYLINDER   @DL29ZCJ 36666429
006742 4020 908C            0008C  7533+         STH   R2,RHHR            RLD TRACK NUMBER             @DL29ZCJ 36666529
006746 4A30 9090            00090  7534+         AH    R3,WCCHHR          + TEXT BASE CYLINDER         @DL29ZCJ 36666629
00674A 4030 908A            0008A  7535+         STH   R3,RCCHHR          RLD CYLINDER NUMBER          @DL29ZCJ 36677729
00674E 92FF 9096      00096        7536+         MVI   RSS,XFF            ASSUME NO RPS DEVICE         @DL30SSM 36679730
006752 91FF 8006      00006        7537+         TM    BTDIR,XFF          IS IT AN RPS DEVICE          @DL30SSM 36680730
006756 4780 6688      06770        7538+         BZ    SETREL             NO, LEAVE SECT AS NOP        @DL30SSM 36681730
00675A 1850                        7539+         LR    R5,R0              SAVE CONTENTS OF REG 5       @DL30SSM 36682730
00675C 1821                        7540+         LR    R2,R1              SAVE CONTENTS OF REG 1       @DL30SSM 36683730
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00675E 1B00                      7541+          SR    R0,R0              ZERO REG ZERO                @DL30SSM 36684730
006760 4300 908E           0008E 7542+          IC    R0,RR              GET RECORD NUMBER            @DL30SSM 36685730
006764 45E0 6594           0667C 7543+          BAL   RE,SECTFCH         GO GET SECTOR VALUE          @DL30SSM 36686730
006768 4200 9096           00096 7544+          STC   R0,RSS             SAVE SECT VALUE IN WORK AREA @DL30SSM 36686930
00676C 1812                      7545+          LR    R1,R2              RESTORE REG 1                @DL30SSM 36687330
00676E 1805                      7546+          LR    R0,R5              RESTORE REG 0                @DL30SSM 36687530
006770 5040 9064           00064 7547+SETREL    ST    R4,RELFACT         SAVE RELOCATION FACTOR       @DL29ZCJ 36687729
006774 9200 9070      00070      7548+          MVI   RLDSW,ZERO         SWITCH MUST BE ZERO NOW      @DL29ZCF 36688129
                           06778 7549+NOTEXT    EQU   *                                               @DL29ZCJ 36688529

                                 7551+*         THIS HOOK DEPENDS ON REG 8 BEING AVAILABLE FOR USE AND     ALF 36800028
                                 7552+*         THE PHASE NAME POINTER IN REG 5. THE FOLLOWING HOOK IS     ALF 36900028
                                 7553+*         USED BY THE PD FETCH-LOAD TRACE ROUTINE FOR LINKAGE.       ALF 37000028

006778 47F0 66C8      067B0      7555+PDFLTHK2 B     NOPDFLT2 .         BRANCH UNLESS F/L TRACE ACTIVE    ALF 37200028
00677C 4150 9068           00068 7556+          LA    R5,CALLNAME .      POINT TO PHASENAME               RL13 37250028
006780 5880 0740           00740 7557+          L     R8,PDARPTR .       LOAD BASE REG FOR NEXT INSTR      487 37300028
006784 5010 66C4           067AC 7558+          ST    R1,SAVE1           SAVE R1                      @DA01338 37320031
006788 9110 9078      00078      7559+          TM    ENTRYC,SVAPHASE    PHASE IN SVA                 @DA01338 37330031
00678C 4780 66AA      06792      7560+          BZ    NOSVAPH            NO,BRANCH                    @DA01338 37340031
006790 1B11                      7561+          SR    R1,R1              CLEAR R1                     @DA01338 37360031
                           06792 7562+NOSVAPH   EQU   *                                               @DA01338 37370031
                           14A60 7563+          USING PDAREA,R8 .        USE R8 AS BASE REGISTER           487 37400028
006792 909B 801C           14A7C 7564+          STM   R9,RB,PDREGSAV .   SAVE REGISTERS 9,10,11            ALF 37500028
006796 1898                      7565+          LR    R9,R8 .            LOAD PD AREA BASE REGISTER        ALF 37600028
                           14A60 7566+          USING PDAREA,R9 .        USE R9 AS BASE REGISTER           487 37700028
006798 4880 067E           0067E 7567+          LH    R8,PIK .           GET VALUE OF PIK FOR PART TEST    466 37800028
00679C 45A0 906C           14ACC 7568+          BAL   RA,PDENTRY4 .      GO TO THE F/L TRACE ROUTINE       ALF 37900028
0067A0 989B 901C           14A7C 7569+          LM    R9,RB,PDREGSAV .   RESTORE REGISTERS                ALF 38000028
0067A4 5810 66C4           067AC 7570+          L     R1,SAVE1           RESTORE R1                   @DA01338 38060031
0067A8 47F0 66C8      067B0      7571+          B     NOPDFLT2                                        @DA01338 38100031
0067AC 00000000                  7572+SAVE1     DC    F'0'               R1 SAVEAREA                  @DA01338 38150031
                           067B0 7573+NOPDFLT2 EQU   * .                                                 ALF 38300028
0067B0 1200                      7574+          LTR   R0,R0 .            BRANCH IF                         ALF 38300329
0067B2 4740 643E      06526      7575+          BM    PHNFND4 .          PHASE NOT FOUND                     38300629
                                 7576+          DROP  R8                                                  KR 38400028
                           00000 7577+          USING SVEARA,R9                                           KR 38550028

                                 7579+*                BYPASS LOAD IF NO TEXT OPTION OR PHASE IN SVA  @DL29ZCJ 38600629

0067B6 9101 9060      00060      7581+          TM    LISTFLAG,NTXTNTRY  NO TEXT, OR SVA PHASE?       @DL29ZCJ 38601229
0067BA 4710 6A38      06B20      7582+          BO    FCHUPD             YES, BRANCH                  @DL29ZCJ 38601529
                                 7583+********  CALCULATE END OF PHASE FOR VALIDATION AND COMREG     LAV 38700028
0067BE 182F                      7584+          LR    R2,RF .            GET LENGTH OF PHASE               KR 38750028
0067C0 48F0 9074           00074 7585+          LH    RF,ENTRYTT         GET NUMBER OF TEXT BLOCKS    @DL29ZCJ 38800029
0067C4 1A21                      7586+          AR    R2,R1 .            ADDR OF LAST BYTE + 1        @DL29ZCJ 40400029
0067C6 9110 9060      00060      7587+          TM    LISTFLAG,SVALOAD   SVA LOAD IN PROCESS?         @DL29ZCJ 40403029
0067CA 4710 6760      06848      7588+          BO    TRANS              YES, BYPASS VALIDATION        @DL29ZCJ 40406029
0067CE BE27 9061           00061 7589+          STCM  R2,M7,TXTBDRY+1    SAVE FOR CCW TRANSLATION      @DL29ZCJ 40410029
0067D2 9101 097F      0097F      7590+          TM    FCHSW,SYSATTN      REQ FROM SYSTEM OR ATTN TASK?@DL29ZCJ 40450029
0067D6 4710 6760      06848      7591+          BO    TRANS              YES, SKIP VALIDATION          @DL29ZCJ 40460029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0067DA 0620                      7592+         BCTR  R2,R0 .            ADDR OF LAST BYTE OF PHASE   @DL29ZCJ 40500029
0067DC D501 9068 B828 00068 01828 7593+         CLC   CALLNAME(L2),OPEN   TRANSIENT ROUTINE?           @DL29ZCJ 40550129
0067E2 4770 670A      067F2       7594+         BNE   NOTRANS            NO, BRANCH                   @DL29ZCJ 40560129
0067E6 5920 0718            00718 7595+         C     R2,APPBEG           TRANS. ROUTINE OUTSIDE SUPV? @DL29ZCJ 40570129
0067EA 47B0 675C      06844       7596+         BNL   VALIDTR             YES, VALIDATE READIN AREA    @DL29ZCJ 40580129
0067EE 47F0 6760      06848       7597+         B     TRANS               NO, SKIP VALIDATION          @DL29ZCJ 40590129
                            067F2 7598+NOTRANS  EQU   *                                                @DL29ZCJ 40592129
0067F2 5910 0718            00718 7599+         C     R1,APPBEG           REQUEST FOR SUPERVISR AREA   @DA09019 40598134
0067F6 47B0 672E      06816       7600+         BNL   NOTRNS1             NO  --->                     @DA09019 40599134
0067FA 4400 B2D2            012D2 7601+         EX    R0,COMPCLC          REQUEST GIVEN IN LTA         @DM16467 40599434
0067FE 4780 6760      06848       7602+         BE    TRANS               YES ---> (NO VALIDATION)     @DM16467 40599734
006802 5910 0714            00714 7603+         C     R1,ALTA              )  CHECK IF LOAD            @DA09019 40600134
006806 4740 B326      01326       7604+         BL    ERR25C               )  IS REQUESTED FOR         @DA09019 40601134
00680A 5920 0980            00980 7605+         C     R2,ASTRING           )  THE LTA AND IF           @DA09019 40602134
00680E 4740 675C      06844       7606+         BL    VALIDTR              )  NO SUPERVISOR PARTS      @DY14837 40603134
006812 47F0 B326      01326       7607+         B     ERR25C               )  ARE OVERWRITTTEN         @DA09019 40604134
                            06816 7608+NOTRNS1  EQU   *                                                @DA09019 40605134
006816 4880 067E            0067E 7609+         LH    R8,PIK .            GET THE PIK                       325 40611028
00681A 4A80 06CC            006CC 7610+         AH    R8,YPIB2TAB .       POINT TO PIB EXTENSION ENTRY      325 40612028
                                  7611+         DROP  RA .                                                409 40612228
                            00000 7612+         USING PIBADR,R8 .                                         325 40613028
00681E BF83 8000            00000 7613+         ICM   R8,M3,PIBCOMRA .    GET CORRECT COMREG ADDRESS   @DL29ZCJ 40713929
                            00000 7614+         USING COMREG,R8                                          @DM11453 40815631
006822 9101 8086      00086       7615+         TM    OPTNBYTE,ANCHTBIT   GETVIS INITIALIZED              @DA03043 40873932
006826 4780 6750      06838       7616+         BZ    NOGETV              NO                           @DA07891 40883933
00682A 5830 8020            00020 7617+         L     R3,PPEND            STARTADDR ANCHORTABLE        @DA10158 40893934
00682E 4133 0800            00800 7618+         LA    R3,2048(R3)         ENDADDRESS TABLE             @DA10158 40900934
006832 1913                       7619+         CR    R1,R3               START PHASE LT END TABLE      @DA10158 40907934
006834 4720 675C      06844       7620+         BH    VALIDTR             NO                           @DA07891 40923933
                            06838 7621+NOGETV   EQU   *                                                @DA10158 40926034
006838 BD27 8021            00021 7622+         CLM   R2,M7,PPEND+D1      END PHASE LT BEGIN TABL      @DA06729 40933932
00683C 4720 B326      01326       7623+         BH    ERR25C              NO,CANCEL                    @DA07891 40943933
006840 5020 8024            00024 7624+         ST    R2,HIPHAS           UPDATE LATEST LOAD ADDRESS   @DA10345 40953934
                                  7625+         DROP  R8                                                  KR 40963929
                            00000 7626+         USING PIBADR,RA .         RESTORE STANDARD BASE REGISTER  409 41063929
006844 4580 B2D2            012D2 7627+VALIDTR  BAL   R8,VALID .          VALIDATE LOAD ADDRESS OF PHASE  LAV 41700029

                                  7629+*************************************************************KR 43968028
                                  7630+*        FOR LOADING PHASES INTO VIRTUAL STORAGE THE MAXIMUM OF      KR 43972029
                                  7631+*        READ-CCWS ARE CHAINED TOGETHER. BEFORE ISSUING THE READ     KR 43976028
                                  7632+*        REQUEST THE READ-IN AREAS REFERRED TO BY THE READ-CCWS      KR 43980029
                                  7633+*        ARE FIXED. AFTER THE READ-REQUEST HAS BEEN FINISHED THE     KR 43984028
                                  7634+*        READ-IN AREAS ARE FREED .                                   KR 43988028
                                  7635+*************************************************************KR 43992028

006848 1881                       7637+TRANS    LR    R8,R1 .             COPY ORIGINAL LOAD ADDRESS      LAV 44000028
00684A 5870 0980            00980 7638+CCWGEN   L     R7,ASTRING          POINT TO CCW GENERATION STRING  LAV 44100029

                                  7640+*        THE CCW GENERATION AREA STARTS 8 BYTES BEFORE THE DIRECTORY  44300028
                                  7641+*        READ-IN AREA,AND EXPANDS INTO THIS AREA.WHEN READING         44400028
                                  7642+*        A-TRANSIENTS ONLY ONE CCW IS GENERATED.IF A DATA CHECK       44500028
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                                  7643+*        OCCURS ,THIS CCW HAS NOT BEEN OVERLAYED,AND RETRY IS POSSIBLE  44600028

00684E 5830 B634            01634  7645+         L     R3,ADIRBUFE .      GET END OF CCW-BUFFER                  44700028
006852 4550 689A            06982  7646+         BAL   R5,SETEND          IF ACTIVE RLD'S, RESET END   @DL29ZCJ 44704029
006856 910F 097F      0097F        7647+         TM    FCHSW,VIRTMSK .    REQUEST FOR VIRTUAL LOAD ?         KR 44710028
00685A 4770 6790      06878        7648+         BNZ   MOVECCW .          NO                           @DL29ZCF 44715029
00685E 9098 9010            00010  7649+         STM   R9,R8,SVER09 .     SAVE CURRENT FETCH STATUS          KR 44730028
006862 47F0 6790      06878        7650+         B     MOVECCW            START TEXT LOAD              @DL29ZCF 44792029
006866 4188 0400            00400  7651+LOOPCHK1 LA    R8,TXTBLOCK(R8)    UPDATE ADDRESS VALUE         @DL29ZCJ 44794029
00686A 12FF                        7652+         LTR   RF,RF              TEST FOR MORE TEXT BLOCKS    @DL29ZCJ 44796029
00686C 4780 68D4      069BC        7653+         BZ    TEXTREAD           READ IN LAST BLOCKS          @DL29ZCJ 44798029
006870 4170 7008            00008  7654+         LA    R7,CCWNEXT .       BUMP TO NEXT CCW             @DL29ZCJ 44800029
006874 45E0 6852            0693A  7655+         BAL   RE,TESTEND         CHECK IF ROOM FOR CCW'S      @DL29ZCJ 45070029
006878 D20F 7000 B7E0 00000 017E0  7656+MOVECCW  MVC   CCWTOT(L16),RDCCW .CREATE CCW TO READ ONE BLOCK @DL29ZCF 45100029
00687E BE87 7001            00001  7657+         STCM  R8,M7,CCWBUF+1 .   PUT USER CORE ADDRESS IN CCW       LAV 45200028
006882 46F0 67A8            06890  7658+         BCT   RF,SETCCW          DECR. TEXT BLK COUNTER,      @DL29ZCJ 45250029
                                   7659+*                                BRANCH IF MORE               @DL29ZCJ 45300029
006886 D201 7006 9076 00006 00076  7660+         MVC   CCWLNG,ENTRYLL     SET LENGTH OF LAST TEXT BLOCK@DL29ZCJ 45550029
00688C 9220 7004      00004        7661+         MVI   CCWCHAIN,SLI       SET END OF STRING            @DL29ZCJ 45600029
006890 910F 097F      0097F        7662+SETCCW   TM    FCHSW,VIRTMSK      REQUEST FOR VIRTUAL LOAD?    @DL29ZCJ 45650029
006894 4770 677E      06866        7663+         BNZ   LOOPCHK1            NO, BYPASS CCW TRANSLATION   @DL29ZCJ 45700029

                                  7665+* CHANNEL PROGRAM TRANSLATION FOR FETCH PROGRAM                          45800029

006898 1847                        7667+TRANSCCW LR    R4,R7              SET TEXT ADDR POINTER        @DL29ZCJ 45900029
00689A 58E0 0778            00778  7668+         L     RE,APMGR           ADDRESSABILITY TO PAGE MGR   @DL29ZCJ 45950029
                            082E6  7669+         USING PMGRADR,RE                                      @DL29ZCJ 46000029
00689E 5820 B638            01638  7670+BNDRYCHK L     R2,TWOKMASK        2K MASK (X'00FFF800)         @DL29ZCJ 46300029
0068A2 1428                        7671+         NR    R2,R8              FIRST BYTE OF 2K BLOCK       @DL29ZCJ 46350029
0068A4 1928                        7672+         CR    R2,R8              READING TO 2K BOUNDARY?      @DL29ZCJ 46400029
0068A6 1828                        7673+         LR    R2,R8              SAVE STARTING BYTE           @DL29ZCJ 46450029
0068A8 4780 681E      06906        7674+         BE    TWOKBDRY           BR. IF READING TO 2K BDRY    @DL29ZCJ 46500029
0068AC 1852                        7675+         LR    R5,R2              GET STARTING BYTE, THIS READ @DL29ZCJ 46550029
0068AE 4A50 7006            00006  7676+         AH    R5,CCWLNG          LAST BYTE+1, THIS READ       @DL29ZCJ 46560029
0068B2 0650                        7677+         BCTR  R5,0               LAST BYTE                    @DL29ZCJ 46562029
0068B4 1752                        7678+         XR    R5,R2              CHECK IF IN SAME 2K BLOCK    @DL29ZCJ 46570029
0068B6 8A50 000B            0000B  7679+         SRA   R5,L11             (RESULT ZERO IF SO)          @DL29ZCJ 46580029
0068BA 4780 67E4      068CC        7680+         BZ    CHKFREE            BR. IF NO IDAL REQUIRED      @DL29ZCJ 46590029
0068BE BE37 7001            00001  7681+         STCM  R3,M7,CCWBUF+1     POINT CCW TO IDAL ENTRY      @DL29ZCJ 46590429
0068C2 1843                        7682+         LR    R4,R3              SET ADDR POINTER TO IDAL     @DL29ZCJ 46590829
0068C4 9200 4000      00000        7683+         MVI   D0(R4),ZERO        CLEAR HI BYTE, FIRST IDAW    @DL29ZCJ 46591229
0068C8 9200 4004      00004        7684+         MVI   D4(R4),ZERO        CLEAR HI BYTE, SECOND IDAW   @DL29ZCJ 46591329
0068CC 5970 0980            00980  7685+CHKFREE  C     R7,ASTRING         FIRST CCW IN CHAIN?          @DL29ZCJ 46591629
0068D0 4770 67F0      068D8        7686+         BNE   SETADDR1            NO, TFIX NOT REQUIRED        @DL29ZCJ 46591729
0068D4 45C0 E7A6            08A8C  7687+TFIXREQ  BAL   RC,TFIX            TFIX PAGE (ADDR IN R2)       @DL29ZCJ 46591829
                            068D8  7688+SETADDR  EQU   *                                               @D34RDFG 46591934
0068D8 B152 0000            00000  7689+SETADDR1 LRA   R5,D0(R2)          GET REAL ADDR FOR READ CCW   @DL29ZCJ 46594929
0068DC BE57 4001            00001  7690+         STCM  R5,M7,D1(R4)       STORE IN CCW OR IDAW         @DL29ZCJ 46596929
0068E0 1943                        7691+         CR    R4,R3              CHECK IF FIRST IDAW          @DL29ZCJ 46597329
0068E2 4770 677E      06866        7692+         BNE   LOOPCHK1           NO, DONE WITH THIS CCW       @DL29ZCJ 46597729
0068E6 9604 7004      00004        7693+         OI    CCWCHAIN,IDAL      SET IDAL BIT IN CCW          @DL29ZCJ 46597929
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0068EA 4144 0004            00004  7694+         LA    R4,D4(R4)          POINT TO NEXT IDAW           @DL29ZCJ 46598829
0068EE 4B30 08F2            008F2  7695+         SH    R3,H8              MAKE ROOM FOR NEXT IDAL      @DL29ZCJ 46599029
0068F2 8A20 000B            0000B  7696+         SRA   R2,L11             THROW AWAY BITS BELOW 2K     @DL29ZCJ 46599229
0068F6 4122 0001            00001  7697+         LA    R2,D1(R2)          BUMP TO NEXT PAGE BOUNDARY   @DL29ZCJ 46599429
0068FA 8B20 000B            0000B  7698+         SLA   R2,L11             BUILD ADDR FOR SECOND IDAW   @DL29ZCJ 46599629
0068FE 45E0 6876            0695E  7699+         BAL   RE,TESTEND2        CHECK IF MORE BUFFER SPACE   @DM00032 46601529
006902 58E0 0778            00778  7700+SETPMGR  L     RE,APMGR           ADDRESSABILITY TO PAGE MGR.  @DL29ZCJ 46602930
006906 5850 B638            01638  7701+TWOKBDRY L     R5,TWOKMASK        2K MASK (X'00FFF800')        @DL29ZCJ 46603929
00690A 5450 9060            00060  7702+         N     R5,TXTBDRY         GET PAGE OF LAST TEXT BYTE+1 @DL29ZCJ 46604329
00690E 1952                        7703+         CR    R5,R2              CAN CURRENT PAGE BE FILLED?  @DL29ZCJ 46604729
006910 47D0 683E      06926        7704+         BNH   CHKFIRST           NO, BRANCH                   @DL29ZCJ 46605129
006914 1852                        7705+         LR    R5,R2              ADDR OF CURRENT PAGE         @DL29ZCJ 46605529
006916 8850 000A            0000A  7706+         SRL   R5,L10             OFFSET TO PT ENTRY           @DL29ZCJ 46606829
00691A 5A50 E3D2            086B8  7707+         A     R5,APT             POINTER TO PT ENTRY          @DM12778 46607232
00691E 9601 5001      00001        7708+         OI    D1(R5),X'01'       SET 'NO READ REQUIRED' BIT   @DL29ZCJ 46607629
006922 B20D 0000                   7709+         PTLB                     PURGE PT LOOK-ASIDE BUFFER   @DL29ZCJ 46607729
006926 4150 68B8            069A0  7710+CHKFIRST LA    R5,BACKOUT1        SET UNSUCCESSFUL CTFIX RETURN@DL29ZCF 46608029
00692A 41C0 67F0            068D8  7711+         LA    RC,SETADDR         SET TFIX, CTFIX RETURN       @DL29ZCJ 46608429
00692E 5970 0980            00980  7712+         C     R7,ASTRING         FIRST CCW, THIS STRING?      @DL29ZCJ 46608529
006932 4780 E7A6      08A8C        7713+         BE    TFIX               YES, TFIX                    @DL29ZCJ 46608729
006936 47F0 E7A2      08A88        7714+         B     CTFIX              NO, CTFIX                    @DL29ZCJ 46609129

                                   7716+* END OF CHANNEL PROGRAM TRANSLATION                         @DL29ZCJ 46609929

                                   7718+* THE FOLLOWING ROUTINE TESTS IF THERE IS ROOM TO INSERT     @DL29ZCJ 46613929
                                   7719+* MORE IDALS OR CCWS IN THE PTA/IDRA.  IF NO ROOM, IT EXITS  @DL29ZCJ 46614329
                                   7720+* TO BACKOUT.  IF OVERRUNNING THE CURRENT RLD POINTER PRODUCES @DL29ZCJ 46614729
                                   7721+* MORE ROOM, IT DOES SO, SETTING THE RLD SWITCH TO FORCE REREAD@DL29ZCJ 46614829
                                   7722+* OF THE LAST RLD BLOCK.  IF IDALS HAVE ALREADY BEEN GENERATED @DL29ZCJ 46615029
                                   7723+* FOR THIS CCW STRING, A TIC AROUND THEM IS GENERATED AND THE  @DL29ZCJ 46615129
                                   7724+* CONDITION CODE IS SET TO ZERO TO INDICATE THIS.  THE         @DL29ZCJ 46615529
                                   7725+* CONDITION CODE IS LOW IF MORE ROOM AVAILABLE WITHOUT RLD     @DL29ZCJ 46615929
                                   7726+* BUFFER RESET, AND HIGH IF RESET BUT NO IDALS PRESENT.       @DL29ZCJ 46616029

00693A 1973                        7728+TESTEND  CR    R7,R3              ROOM LEFT?                   @DL29ZCJ 46616229
00693C 074E                        7729+         BLR   RE                 YES, RETURN                  @DL29ZCJ 46616629
00693E 4550 689A            06982  7730+         BAL   R5,SETEND          TRY RESETTING RLD POINTER    @DL29ZCJ 46616729
006942 4780 68CE      069B6        7731+         BE    BACKOUT2           NO MORE ROOM                 @DL29ZCF 46616829
006946 9200 9070      00070        7732+         MVI   RLDSW,ZERO         FORCE REREAD OF RLD'S        @DL29ZCJ 46616929
00694A 1937                        7733+         CR    R3,R7              IDALS PRESENT?               @DL29ZCJ 46617029
00694C 5830 B634            01634  7734+         L     R3,ADIRBUFE        SET NEW END POINTER          @DL29ZCJ 46617129
006950 078E                        7735+         BER   RE                 RETURN IF NO IDALS           @DM00032 46617229
                            06952  7736+SETTIC   EQU   *                  ALT. ENTRY TO SET TIC CCW    @DL29ZCJ 46617329
006952 5010 7000            00000  7737+         ST    R1,CCWTOT          SET TIC ADDRESS              @DL29ZCJ 46617429
006956 9208 7000      00000        7738+         MVI   CCWTOT,TIC         SET TIC OPCODE               @DL29ZCJ 46617529
00695A 1871                        7739+         LR    R7,R1              RESET CCW POINTER            @DL29ZCJ 46617629
00695C 07FE                        7740+         BR    RE                 EXIT                         @DL29ZCJ 46618029
                            0695E  7741+TESTEND2 EQU   *                                              @DM00032 46619329
00695E 1973                        7742+         CR    R7,R3              ROOM LEFT?                   @DM00032 46620729
006960 074E                        7743+         BLR   RE                 YES, RETURN                  @DM00032 46621229
006962 4550 689A            06982  7744+         BAL   R5,SETEND          TRY RESETTING RLD POINTER    @DM00032 46621729
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

006966 4780 68B8      069A0        7745+         BE    BACKOUT1           NO MORE ROOM                  @DM00032 46622229
00696A 9200 9070      00070        7746+         MVI   RLDSW,ZERO         FORCE REREAD OF RLD'S         @DM00032 46622729
00696E 5830 B634            01634  7747+         L     R3,ADIRBUFE        SET NEW END POINTER           @DM00032 46623629
006972 D207 1000 7000 00000 00000  7748+         MVC   D0(L8,R1),CCWTOT   MOVE READ CCW                 @DM00032 46624129
006978 D207 1008 B7E8 00008 017E8  7749+         MVC   D8(L8,R1),RPSTIC   SET TIC TO RD CNT CCW         @DL30SSM 46624630
00697E 47F0 686A      06952        7750+         B     SETTIC             MOVE TIC CCW                  @DM00032 46625030
                                   7751+* THIS ROUTINE SETS REG 3 TO POINT 8 BYTES BELOW THE NEXT      @DL29ZCJ 46625734
                                   7752+* LOWER 8 BYTE BOUNDARY BEFORE THE CURRENT RLD POINTER, IF     @DL29ZCJ 46625834
                                   7753+* THE RLD SWITCH IS SET ACTIVE.  REG 1 IS SET 8 BYTES ABOVE     @DL29ZCJ 46625929
                                   7754+* REG 3.  IF ITS RESULTING VALUE EQUALS THE END OF THE BUFFER, @DL29ZCJ 46627229
                                   7755+* OR THE RLD SWITCH IS 0, THE CONDITION CODE IS SET TO ZERO.    @DL29ZCJ 46628529

006982 9500 9070      00070        7757+SETEND   CLI   RLDSW,ZERO         RLD BUFFER ACTIVE?            @DL29ZCJ 46631129
006986 0785                        7758+         BER   R5                 NO, RETURN CC=0               @DL29ZCJ 46632429
006988 BF37 9071            00071  7759+         ICM   R3,M7,RLDADDR      POINT TO NEXT RLD             @DL29ZCJ 46633729
00698C 8A30 0003            00003  7760+         SRA   R3,3               NEXT LOWER                    @DL29ZCJ 46635029
006990 8B30 0003            00003  7761+         SLA   R3,3               EIGHT-BYTE BOUNDARY           @DL29ZCJ 46636329
006994 1813                        7762+         LR    R1,R3              SAVE FOR TEST                 @DL29ZCJ 46637629
006996 4B30 08F2            008F2  7763+         SH    R3,H8              EIGHT BYTES BELOW THAT        @DL29ZCJ 46638929
00699A 5910 B634            01634  7764+         C     R1,ADIRBUFE        END CHECK                     @DL29ZCJ 46640229
00699E 07F5                        7765+         BR    R5                 RETURN, CC=0 IF END           @DL29ZCJ 46641529

                            069A0  7767+BACKOUT1 EQU   *                                               @D34RDFG 46645434
0069A0 41FF 0001            00001  7768+         LA    RF,D1(RF)          UPDATE BLOCK COUNTER          @DM05137 46646729
0069A4 91FF 9095      00095        7769+         TM    WSS,XFF            SET SECTER TO BE A NOP        @DM08203 46649430
0069A8 45E0 65A6            0668E  7770+         BAL   RE,RPSETCCW        GO FIND OUT AND DO IT IF SO   @DM08203 46652330
0069AC D20F 7000 B7F0 00000 017F0  7771+         MVC   CCWTOT(L16),CNTCCW MOVE IN RD COUNT & RD SECTER  @DM08203 46652430
0069B2 47F0 68D4      069BC        7772+         B     TEXTREAD           GO READ TEXT                  @DM08203 46652530
0069B6 D207 7000 B7E8 00000 017E8  7773+BACKOUT2 MVC   CCWTOT,RPSTIC      TIC TO RD CNT FOR LAST BLK    @DL30SSM 46652730
0069BC 910F 097F      0097F        7774+TEXTREAD TM    FCHSW,VIRTMSK      REQUEST FOR VIRTUAL LOAD?     @DM05580 46655130
0069C0 4770 68E8      069D0        7775+         BNZ   NOTRDONE          NO, BYPASS COUNT UPDATE       @DM05580 46656330
0069C4 4850 08F0            008F0  7776+         LH    R5,CNTCOM          GET CCW TRANSLATION COUNTER   @DM05580 46657530
0069C8 4155 0001            00001  7777+         LA    R5,D1(R5)          INCREASE BY ONE               @DM05580 46658730
0069CC 4050 08F0            008F0  7778+         STH   R5,CNTCOM          STORE IT BACK                 @DM05580 46659930
0069D0 1847                        7779+NOTRDONE LR    R4,R7              SAVE POINTER TO LAST CCW      @DM05580 46661130
0069D2 5870 0980            00980  7780+         L     R7,ASTRING         POINT TO FIRST CCW            @DL29ZCJ 46662330
0069D6 D204 B6CE 9090 016CE 00090  7781+         MVC   CCHHR(L5),WCCHHR   SET CCHHR FOR READ            @DL29ZCJ 46663530
0069DC 91FF 9095      00095        7782+         TM    WSS,XFF            IS SET SECT TO BE NO'OP'D     @DL30SSM 46665930
0069E0 45E0 65A6            0668E  7783+         BAL   RE,RPSETCCW        GO FIND OUT AND DO IT IF SO   @DL30SSM 46667130
0069E4 D200 B6D8 9095 016D8 00095  7784+         MVC   SECTAREA,WSS       MOVE SECT VAL TO AREA ANYWAY  @DL30SSM 46668330
0069EA 45E0 6386            0646E  7785+         BAL   RE,READD           READ IN TEXT BLOCKS           @DL29ZCJ 46670730
0069EE D204 9090 B6CE 00090 016CE  7786+         MVC   WCCHHR,CCHHR       SAVE CCHHR OF NEXT TEXT BLOCK@DL29ZCJ 46671930
0069F4 D200 9095 B6D8 00095 016D8  7787+         MVC   WSS,SECTAREA       SAVE SECT OF NEXT BLOCK       @DL30SSM 46674330
0069FA 910F 097F      0097F        7788+         TM    FCHSW,VIRTMSK      VIRTUAL LOAD IN PROCESS?      @DL29ZCJ 46676730
0069FE 4770 697A      06A62        7789+         BNZ   NOPGFREE           NO, BYPASS PAGE FREE          @DL29ZCJ 46677930

                                   7791+* START OF CHANNEL PROGRAM RETRANSLATION                       @DL29ZCJ 46680330

006A02 58E0 0778            00778  7793+         L     RE,APMGR           ADDRESSABILITY TO PMGR        @DL29ZCJ 46682730
006A06 5870 0980            00980  7794+         L     R7,ASTRING         POINT TO FIRST CCW            @DL29ZCJ 46683930
006A0A BF37 7001            00001  7795+         ICM   R3,M7,CCWBUF+1     GET CCW ADDRESS POINTER       @DL29ZCJ 46685130
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

006A0E 9104 7004      00004        7796+          TM    CCWCHAIN,IDAL      IDAL USED FOR THIS CCW?      @DL29ZCJ 46686330
006A12 4780 695E      06A46        7797+          BZ    SETPTO             NO, BRANCH                   @DL29ZCJ 46687530
006A16 BF37 3001            00001  7798+          ICM   R3,M7,D1(R3)       GET IDAW ENTRY VALUE         @DL29ZCJ 46688730
006A1A 4B70 08F2            008F2  7799+          SH    R7,H8              PROCESS 2ND HALF OF IDAL NEXT@DL29ZCJ 46689930
006A1E 47F0 695E      06A46        7800+          B     SETPTO             FREE 1ST HALF                @DL29ZCJ 46691130
006A22 BF37 7001            00001  7801+FREELOOP  ICM   R3,M7,CCWBUF+1     GET CCW ADDRESS POINTER      @DL29ZCJ 46692330
006A26 9104 7004      00004        7802+          TM    CCWCHAIN,IDAL      IDAL USED FOR THIS CCW?      @DL29ZCJ 46693530
006A2A 4780 694A      06A32        7803+          BZ    PAGECHK            NO, BRANCH                   @DL29ZCJ 46694730
006A2E BF37 3005            00005  7804+          ICM   R3,M7,D5(R3)       GET 2ND IDAW VALUE           @DL29ZCJ 46695930
006A32 1853                        7805+PAGECHK   LR    R5,R3              FIRST BYTE ADDRESS           @DL29ZCJ 46697130
006A34 5450 B638            01638  7806+          N     R5,TWOKMASK        FIRST BYTE OF 2K BLOCK       @DL29ZCJ 46698330
006A38 1953                        7807+          CR    R5,R3              FIRST BYTE ON 2K BOUNDARY?   @DL29ZCJ 46699530
006A3A 4770 6966      06A4E        7808+          BNE   CHKNXT             NO, BYPASS TFREE             @DL29ZCJ 46700730
006A3E 9508 7000      00000        7809+          CLI   CCWCODE,TIC         TIC COMMAND                  @DA05670 46701132
006A42 4780 6966      06A4E        7810+          BE    CHKNXT             YES, BYPASS TFREE            @DA05670 46701532
006A46 8A30 000B            0000B  7811+SETPTO    SRA   R3,L11             GET PT OFFSET                @DL29ZCJ 46701930
006A4A 45C0 E824            08B0A  7812+PAGEFREE BAL   RC,TFREE           FREE PAGE                    @DL29ZCJ 46703130
006A4E 4177 0008            00008  7813+CHKNXT    LA    R7,D8(R7)          POINT TO NEXT CCW            @DL29ZCJ 46705530
006A52 1974                        7814+          CR    R7,R4              LAST CCW PROCESSED?          @DL29ZCJ 46706730
006A54 47D0 693A      06A22        7815+          BNH   FREELOOP           NO, PROCESS NEXT CCW         @DL29ZCJ 46707930
006A58 4830 08F0            008F0  7816+          LH    R3,CNTCOM .        GET CCW-TRANSLATION COUNTER  @DL29ZCJ 46709130
006A5C 0630                        7817+          BCTR  R3,0               DECREASE COUNTER BY ONE      @DL29ZCJ 46710330
006A5E 4030 08F0            008F0  7818+          STH   R3,CNTCOM .                                     46711530

                                   7820+* END OF CHANNEL PROGRAM RETRANSLATION                          KR 46713930


                            06A62  7822+NOPGFREE EQU   *                                               @DL29ZCJ 46716330
006A62 BF5F 9064            00064  7823+          ICM   R5,M15,RELFACT     GET RELOCATION FACTOR        @DL29ZCJ 46718730
006A66 4780 6A32      06B1A        7824+          BZ    LOOPCHK2           BYPASS RELOCATION IF ZERO    @DL29ZCJ 46719930
006A6A 4830 9080            00080  7825+          LH    R3,ENTRYRR         NUMBER OF RLD ITEMS REMAINING@DL29ZCJ 46721130
006A6E 1233                        7826+          LTR   R3,R3              CHECK IF ANY LEFT            @DL29ZCJ 46722329
006A70 4780 6A32      06B1A        7827+          BZ    LOOPCHK2           NO, BRANCH                   @DL29ZCJ 46772329

                                   7829+* RELOCATE USER ADCONS FOR TEXT ALREADY LOADED                  @DL29ZCJ 46773129


006A74 BF4F 9070            00070  7831+          ICM   R4,M15,RLDSW       RLD SWITCH, STARTING ADDRESS @DL29ZCJ 46773929
006A78 4720 69AC      06A94        7832+NEXTRLD   BP    READRLD            READ RLD BLOCK IF SWITCH > 0 @DL29ZCJ 46774029
006A7C BD47 B644            01644  7833+          CLM   R4,M7,ARLDBUFE      BUFFER OVERFLOW?             @DL29ZCJ 46774129
006A80 4740 69DC      06AC4        7834+          BL    NEXTRLD1           NO, GO PROCESS ADCON         @DL29ZCJ 46782729
006A84 D204 908A 9082 0008A 00082  7835+          MVC   RCCHHR,NCCHHR      SET TO READ NEXT RLD BLOCK   @DL29ZCJ 46784729
006A8A D200 9096 9097 00096 00097  7836+          MVC   RSS,NSS            SECT VAL FOR NEXT RLD BLOCK  @DL30SSM 46784930
006A90 5840 B7E0            017E0  7837+          L     R4,RDCCW           INITIALIZE RLD POINTER       @DL29ZCJ 46786729
006A94 4170 B7E0            017E0  7838+READRLD   LA    R7,RDCCW           POINT TO READ CCW FOR RLD'S  @DL29ZCJ 46790729
006A98 BF48 B7E0            017E0  7839+          ICM   R4,M8,RDCCW        SET RLD SWITCH               @DL29ZCJ 46795329
006A9C BE4F 9070            00070  7840+          STCM  R4,M15,RLDSW       SAVE IT, RLD POINTER         @DL29ZCJ 46800029
006AA0 D204 B6CE 908A 016CE 0008A  7841+          MVC   CCHHR(L5),RCCHHR   SET CCHHR FOR RLD BLOCK      @DL29ZCJ 46804629
006AA6 91FF 9096      00096        7842+          TM    RSS,XFF            IS SET SECT TO BE NO-OP'D    @DL30SSM 46804830
006AAA 45E0 65A6            0668E  7843+          BAL   RE,RPSETCCW        GO FIND OUT AN DO IT MAYBE   @DL30SSM 46804930
006AAE D200 B6D8 9096 016D8 00096  7844+          MVC   SECTAREA,RSS       SET SECT VALUE REGARDLESS    @DL30SSM 46805030
006AB4 45E0 6386            0646E  7845+          BAL   RE,READD           READ NEXT RLD BLOCK          @DL29ZCJ 46809229
006AB8 D204 9082 B6CE 00082 016CE  7846+          MVC   NCCHHR,CCHHR       SAVE CCHHR FOR NEXT RLD BLOCK@DL29ZCJ 46813829
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

006ABE D200 9097 B6D8 00097 016D8  7847+         MVC   NSS,SECTAREA       SAVE SECTOR VALUE OF NEXT    @DL30SSM 46814030
006AC4 BF7F 4000              00000  7848+NEXTRLD1 ICM   R7,M15,D0(R4)      ADDRESS OF USER ADCON        @DL29ZCJ 46818429
006AC8 4770 69F2      06ADA          7849+         BNZ   NEXTRLD2           BRANCH IF MORE               @DL29ZCJ 46868429
006ACC 1B33                          7850+         SR    R3,R3              ONLY UNRESOLVED EXT REF LEFT @DL29ZCJ 46870429
006ACE 47F0 6A2E      06B16          7851+         B     RLDEXIT            EXIT, SET TO BYPASS NEXT TIME@DL29ZCJ 46872429
006AD2 BF70 2000              00000  7852+IADCON   ICM   R7,M0,D0(R2)       LOAD USER ADCON              @DL29ZCJ 46872829
006AD6 BE70 2000              00000  7853+SADCON   STCM  R7,M0,D0(R2)       STORE USER ADCON             @DL29ZCJ 46881829
006ADA 1A75                          7854+NEXTRLD2 AR    R7,R5              RELOCATE ADCON POINTER       @DL29ZCJ 46883829
006ADC 4127 0000              00000  7855+         LA    R2,D0(R7)          SAVE FOR ICM/STCM            @DL29ZCJ 46885829
006AE0 8870 001B              0001B  7856+         SRL   R7,L24+L3          OBJECT LENGTH OF USER ADCON  @DL29ZCJ 46887829
006AE4 43E7 B64C              0164C  7857+         IC    RE,MASKCON(R7)     GET MASK FOR ICM/STCM        @DL29ZCJ 46889829
006AE8 1A72                          7858+         AR    R7,R2              LAST BYTE ADDR OF ADCON      @DL29ZCJ 46890229
006AEA 1978                          7859+         CR    R7,R8              BEYOND LAST TEXT READ?       @DL29ZCJ 46890629
006AEC 47B0 6A2E      06B16          7860+         BNL   RLDEXIT            YES, GET MORE TEXT           @DL29ZCJ 46890729
006AF0 44E0 69EA              06AD2  7861+         EX    RE,IADCON          LOAD USER ADCON TO R7        @DL29ZCJ 46890829
                              06AF4  7862+PCKADR1F EQU   *        PROGR CHECK HERE IF INVALID ADCON ADR  @DA07588 46900833
006AF4 9101 4000      00000          7863+         TM    D0(R4),X'01'       CHECK FOR ADD OR SUBTRACT    @DL29ZCJ 46918129
006AF8 1845                          7864+         LR    R4,R5              SET TO ADD RELOCATION FACTOR @DL29ZCJ 46928129
006AFA 4780 6A18      06B00          7865+         BZ    NEXTRLD3           BRANCH IF ADD                @DL29ZCJ 46968129
006AFE 1345                          7866+         LCR   R4,R5              SET TO SUBTRACT RELOC FACTOR @DL29ZCJ 46970129
006B00 1A74                          7867+NEXTRLD3 AR    R7,R4              ADD/SUBT RELOCATION FACTOR   @DL29ZCJ 46972129
006B02 44E0 69EE              06AD6  7868+NEXTRLD4 EX    RE,SADCON          STORE USER ADCON FROM R7     @DL29ZCJ 46972529
006B06 BF4F 9070              00070  7869+         ICM   R4,M15,RLDSW       PICK UP RLD POINTER          @DL29ZCJ 46972629
006B0A 4A40 B592              01592  7870+         AH    R4,H04             POINT TO NEXT RLD ITEM       @DL29ZCJ 46972729
006B0E BE4F 9070              00070  7871+         STCM  R4,M15,RLDSW       SAVE RLD POINTER AND SWITCH  @DL29ZCJ 46981829
006B12 4630 6990              06A78  7872+         BCT   R3,NEXTRLD         BRANCH IF MORE               @DL29ZCJ 46983829
006B16 4030 9080              00080  7873+RLDEXIT  STH   R3,ENTRYRR          SAVE REMAINING RLD COUNT     @DL29ZCJ 46985829
006B1A 12FF                          7874+LOOPCHK2 LTR   RF,RF .             BRANCH IF NOT                @DL29ZCJ 46990929
006B1C 4720 6762      0684A          7875+         BP    CCWGEN .           COMPLETE PHASE READ IN                47000029
                              06B20  7876+FCHUPD   EQU   * .                                               KR 50506028
006B20 1820                          7877+         LR    R2,R0              SAVE ENTRY ADDRESS FOR SVC   @DL29ZCJ 50506329
006B22 5810 905C              0005C  7878+         L     R1,CALLPNAM        POINT TO DIR ENTRY OR PNAM   @DL29ZCJ 50506629
006B26 9110 9078      00078          7879+         TM    ENTRYC,SVAPHASE    PHASE FOUND IN SVA?          @DL29ZCJ 50506929
006B2A 47E0 6A4A      06B32          7880+         BNO   FCHUPD1            NO, BRANCH                   @DL29ZCJ 50507229
006B2E BF07 9087              00087  7881+         ICM   R0,M7,ENTRYVEE     POINT TO EP IN SVA           @DL29ZCJ 50507529
006B32 5890 9058              00058  7882+FCHUPD1  L     R9,FCHRET .        RELOAD RETURN POINT FETCH    @DL29ZCJ 50582029
006B36 47F0 0B4C      00B4C          7883+         B     FCHEXIT            EXIT                         @DL29ZCJ 50584029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  7885+*****************************************************************KR 51601628
                                  7886+*        THE FOLLOWING ROUTINE STARTS THE FETCH-REQUEST AT THAT      KR 51602428
                                  7887+*        POINT WHERE IT COULDN'T BE CONTINUED BECAUSE NO MORE PAGE   KR 51603228
                                  7888+*        FRAMES WERE AVAILABLE OR THE REQUESTUNG TASK HAS BEEN       KR 51604028
                                  7889+*        DEACTIVATED.                                                KR 51604828
                                  7890+*****************************************************************KR 51605628

                           06B3A  7892+SETFCH   EQU   * .                                                   KR 51607228
006B3A 926F A000           00000  7893+         MVI   PIBFLG,IDRABND .   MAKE TASK IDRA-BND               IDRA 51610728
006B3E 9500 0955           00955  7894+         CLI   TRTIDRA,ZERO .     IS PTA IN USE                    IDRA 51610828
006B42 4780 6A7A           06B62  7895+         BE    RESTART .          YES                              IDRA 51610928
006B46 9200 0955           00955  7896+         MVI   TRTIDRA,ZERO .     INDICATE PTA IN USE              IDRA 51611028
006B4A 9207 073D           0073D  7897+         MVI   SELECT,SUPVR .     ACTIVATE SUPVR-TASK               KR 51611228
006B4E 94F0 097F           0097F  7898+         NI    FCHSW,XFF-VIRTMSK .RESET FCHSW                      KR 51614428
006B52 D203 900C 9050 0000C 00050 7899+         MVC   SVEPSW2(L4),RESETPT RESTORE RETURN POINT             KR 51616028
006B58 D203 0794 6A84 00794 06B6C 7900+         MVC   ASYSBLKX,ASUPBLK   RESTORE ADDR OF SYSTEM TCB   @DL29ZCJ 51618029
006B5E 8200 9008           00008  7901+         LPSW  SVEPSW             RESTART FETCH               @DL29ZCJ 51620029
006B62 9601 A004           00004  7902+RESTART  OI    PIBDATFL,CSVRET .  INDICATE RETURN VIA SYSTEM SA      KR 51620828
006B66 5860 086C                  0086C 7903+         L     R6,DISPAD          RESTORE EXIT POINTER       @DM05356 51621233
006B6A 07F6                         7904+         BR    R6 .               BRANCH TO EXIT                   KR 51621628
006B6C 00001740                     7905+ASUPBLK  DC    A(SUPBLOCK)        ADDR OF SYSTEM TASK CNTRL BLK@DL29ZCJ 51622429

                                  7907+         DROP  R6                                                  @DL29ZCF 51697229
                                  7908+         DROP  R9 .                                                   KR 51697628
                                  7909+         DROP  RA                                                  @DL29ZCF 51698029
                           00000  7910+         USING SVEARA,R8                                           @DM15356 51699033
                                  7911+*                                                                  @D348DJR 00146034
                                  7912+*        SUPERVISOR - SGCCWT - 5745-SC-SUP - REL. 34.1             @DZ15896 00147034
                                  7913+*                                                                  @D348DJR 00147534
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 7915+*************************************************************************  00182834
                                 7916+*************************************************************************  00182934
                                 7917+*  *                                                                 *   *  00183032
                                 7918+*  *              NEW CCW-TRANSLATE FUNCTION                         *   *  00183432
                                 7919+*  *                                                                 *   *  00183832
                                 7920+*  *            F A S T  -  T R A N S L A T E                        *   *  00184232
                                 7921+*  *            ============================                         *   *  00184632
                                 7922+*  *                                                                 *   *  00185032
                                 7923+*************************************************************************  00185432
                                 7924+*  *                                                                 *   *  00185832
                                 7925+*  *  GENERAL FUNCTION:                                              *   *  00186232
                                 7926+*  *                                                                 *   *  00186632
                                 7927+*  *     AN ATTEMPT IS MADE TO RE-USE SAVED COPIES OF ONCE           *   *  00187032
                                 7928+*  *     TRANSLATED VIRTUAL CHANNEL PROGRAMS AS MANY TIMES AS        *   *  00187432
                                 7929+*  *     POSSIBLE, RATHER THEN DOING THE SAME TRANSLATION PROCESS    *   *  00187832
                                 7930+*  *     OVER AND OVER AGAIN.                                        *   *  00188232
                                 7931+*  *                                                                 *   *  00188632
                                 7932+*  *     THE CAPABILITY OF 'REMEMBERING' PREVIOUS TRANSLATIONS       *   *  00189032
                                 7933+*  *     CONSISTS OF STORING AND RECOGNIZING CERTAIN DATA:            *   *  00189432
                                 7934+*  *       1) VIRTUAL CCB ADDRESS                                    *   *  00189832
                                 7935+*  *       2) VIRTUAL CCB                                            *   *  00190232
                                 7936+*  *       3) VIRTUAL CCW-STRING                                     *   *  00190632
                                 7937+*  *     TOGETHER THESE THREE ITEMS CONSTITUTE THE SO-CALLED          *   *  00191032
                                 7938+*  *     'REPLICA'                                                   *   *  00191432
                                 7939+*  *                                                                 *   *  00191832
                                 7940+*  *     WHEN ONE OR MORE PROGRAMS ARE RUNNING IN VIRTUAL MODE,      *   *  00192232
                                 7941+*  *     VARIOUS REPLICA'S CAN BE AROUND AT THE SAME TIME IN          *   *  00192632
                                 7942+*  *     THE SYSTEM, TOGETHER WITH THEIR ASSOCIATED PRESERVED:       *   *  00193032
                                 7943+*  *       1) COPIED CCB                                             *   *  00193432
                                 7944+*  *       2) TRANSLATED CCW-STRING                                  *   *  00193832
                                 7945+*  *       3) IDALS                                                  *   *  00194232
                                 7946+*  *                                                                 *   *  00194632
                                 7947+*  *     WHEN A TRANSLATION REQUEST IS HANDLED, FIRST THE TASK        *   *  00195032
                                 7948+*  *     CONTROL BLOCK IS INITIALIZED AND REGISTERS ARE SAVED.        *   *  00195432
                                 7949+*  *                                                                 *   *  00200032
                                 7950+*  *     THEN CONTROL IS PASSED TO THE 'TESTREPL' RECOGNITION         *   *  00200632
                                 7951+*  *     ROUTINE - SO AS TO CHECK WHETHER WITH RESPECT TO             *   *  00201232
                                 7952+*  *     VIRTUAL CCB ADDRESS, CCB ITSELF, AND CCW-STRING,            *   *  00201832
                                 7953+*  *     A MATCHING REPLICA EXISTS.                                   *   *  00202432
                                 7954+*  *                                                                 *   *  00203032
                                 7955+*  *     IS SO, THEN THE CORRESPONDING SAVED CCB COPY IS MADE         *   *  00203632
                                 7956+*  *     AVAILABLE BY POINTING REG 1 TO IT, AND THE 'FASTTRNS'        *   *  00204232
                                 7957+*  *     ROUTINE IS EXECUTED  INSTEAD OF THE 'CCWTRANS' FULL          *   *  00204832
                                 7958+*  *     TRANSLATION PROCEDURE.                                       *   *  00205432
                                 7959+*  *     OTHERWISE, 'CCWTRANS' PERFORMS THE REGULAR TRANSLATION       *   *  00206032
                                 7960+*  *     AND MOREOVER A NEW REPLICA IS CREATED AS WELL AS A           *   *  00206632
                                 7961+*  *     'DIDAL'.  (FOR DISCUSSION OF DIDAL SEE BELOW.)              *   *  00207232
                                 7962+*  *                                                                 *   *  00207832
                                 7963+*  *     THE KERNEL OF THE 'FASTTRNS' ROUTINE IS THE FIXING OF       *   *  00208432
                                 7964+*  *     PAGES CONTAINING DATA AREAS.                                 *   *  00209032
                                 7965+*  *     NO SCANNING THRU THE CHANNEL PROGRAM IS NEEDED, SINCE        *   *  00209632
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 7966+*  *     IN ADDITION TO THE REPLICA A LIST IS MAINTAINED THAT    *   *  00210232
                                 7967+*  *     HOLDS FIRSTLY THE VIRTUAL ADDRESSES THAT HAVE TO BE     *   *  00210832
                                 7968+*  *     TRANSLATED AND FIXED, AND SECONDLY THE POINTERS TO THE  *   *  00211432
                                 7969+*  *     LOCATIONS WHERE THE CORRESPONDING TRANSLATED ADDRESSES  *   *  00212032
                                 7970+*  *     SHOULD BE MOVED INTO.                                  *   *  00212632
                                 7971+*  *                                                            *   *  00213232
                                 7972+*  *     THIS LIST, AS A KIND OF 'DOUBLEWORD-IDAL', IS CALLED    *   *  00213832
                                 7973+*  *     'DIDAL'.                                               *   *  00214432
                                 7974+*  *     THE DIDAL ENTRIES HAVE THE FOLLOWING FORMAT:           *   *  00215032
                                 7975+*  *                                                            *   *  00215632
                                 7976+*  *       ---------------------------------------------        *   *  00216232
                                 7977+*  *       !         VIRTUAL        !X'01'!   POINTER TO    !    *   *  00216832
                                 7978+*  *       !         ADDRESS        !X'80'!    LOCATION     !    *   *  00217432
                                 7979+*  *       ---------------------------------------------        *   *  00218032
                                 7980+*  *          0                 3     4                   7     *   *  00218632
                                 7981+*  *                                                            *   *  00219232
                                 7982+*  *     BIT 0 OF BYTE 4 IS USED AS A FLAG FOR THOSE ENTRIES     *   *  00219832
                                 7983+*  *     WHICH REQUIRE NO FIXING AS THE VIRTUAL ADDRESS IS       *   *  00220432
                                 7984+*  *     WITHIN A PAGE THAT IS ALREADY FIXED.                    *   *  00221032
                                 7985+*  *     THIS FLAG IS SET ONCE, WHEN THE DIDAL IS CREATED, AND   *   *  00221632
                                 7986+*  *     IS NEVER RESET.                                         *   *  00222232
                                 7987+*  *                                                            *   *  00222832
                                 7988+*  *     BIT 7 OF BYTE 4 IS SET EACH TIME THE CORRESPONDING PAGE *   *  00223432
                                 7989+*  *     IS FIXED ('FIXAREA' INITIALLY, LATER 'FASTTRNS') AND IT *   *  00224032
                                 7990+*  *     IS RESET WHEN THE PAGE IS FREED AGAIN ('UNFIX').        *   *  00224632
                                 7991+*  *                                                            *   *  00225232
                                 7992+*  *     CREATION OF THE DIDAL TAKES PLACE DYNAMICALLY UNDER     *   *  00225832
                                 7993+*  *     THE REGULAR CCW-TRANSLATION. FOR THIS PURPOSE THE       *   *  00226432
                                 7994+*  *     'FIXAREA' ROUTINE HAD TO BE MODIFIED: ADDITIONAL        *   *  00227032
                                 7995+*  *     FUNCTION IS THE CREATION OF ONE DIDAL ENTRY EACH TIME   *   *  00227632
                                 7996+*  *     THE 'FIXAREA' ROUTINE IS CALLED.                        *   *  00228232
                                 7997+*  *                                                            *   *  00228832
                                 7998+*  *     THE FUNCTION REFLECTS ALSO WHAT IS CALLED THE 'EXTENDED *   *  00229432
                                 7999+*  *     FAST-TRANSLATE'.                                        *   *  00230032
                                 8000+*  *     THIS MEANS THAT THAT AT RE-TRANSLATION TIME THE         *   *  00230632
                                 8001+*  *     FIXED DATA AREA PAGES ARE NOT IMMEDIATELY FREED,        *   *  00231232
                                 8002+*  *     BUT ARE KEPT FIXED ACROSS TRANSLATIONS AS LONG AS THE   *   *  00231832
                                 8003+*  *     PAGING RATE IS NOT SERIOUSLY IMPACTED.                  *   *  00232432
                                 8004+*  *                                                            *   *  00233032
                                 8005+*  *     A FEEDBACK MECHANISM IS PROVIDED FOR REGULATING THE      *   *  00233632
                                 8006+*  *     NUMBER OF TRANSLATED CHANNEL PROGRAMS THAT HAVE THEIR   *   *  00234232
                                 8007+*  *     DATA AREA PAGES FIXED, DEPENDING ON THE PAGING RATE.    *   *  00234832
                                 8008+*  *     THIS NUMBER CAN VARY FROM 0 UP TO 100 PERCENT           *   *  00235432
                                 8009+*  *     OF THE TOTAL NUMBER OF PRESERVED COPIES AT EACH MOMENT. *   *  00236032
                                 8010+*  *     WHEN NECESSARY PAGE 'UNFIX'ING IS DONE: ALWAYS FOR THE  *   *  00236632
                                 8011+*  *     LEAST RECENTLY USED COPY.                               *   *  00237232
                                 8012+*  *                                                            *   *  00237832
                                 8013+*  *     THERE ARE THREE MECHANISMS - TWO AT SYSTEM LEVEL AND     *   *  00238432
                                 8014+*  *     ONE AT PARTITION LEVEL - FOR DELETING 'OUT-OF-DATE'      *   *  00239032
                                 8015+*  *     COPIES TOGETHER WITH THEIR ASSOCIATED CCW-STRING AND     *   *  00239632
                                 8016+*  *     REPLICA, AS WELL AS IDAL AND DIDAL IF THERE ARE ANY.     *   *  00240232
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 8017+*  *                                                          *   *  00240832
                                 8018+*  *     THUS A TRANSLATION REQUEST CAN BE HANDLED IN THREE    *   *  00241432
                                 8019+*  *     DIFFERENT WAYS, DEPENDENT ON WHETHER A MATCHING REPLICA *   *  00242032
                                 8020+*  *     EXISTS OR NOT, AND IN CASE OF A MATCHING REPLICA      *   *  00242632
                                 8021+*  *     ON WHETHER THE DATA ARE PAGES ARE STILL FIXED OR NOT: *   *  00243232
                                 8022+*  *       1) FULL-TRANSLATION  (CCWTRANS)                    *   *  00243832
                                 8023+*  *       2) FAST-TRANSLATION  (FASTTRNS)                    *   *  00244432
                                 8024+*  *       3) NULL-TRANSLATION  (FASTTRNS, SHORT PATH)        *   *  00245032
                                 8025+*  *                                                          *   *  00245632
                                 8026+*  *     FULL-TRANSLATION INCLUDES REPLICA - AND DIDAL CREATION *   *  00246232
                                 8027+*  *     WITH TWO EXCEPTIONS:                                 *   *  00246832
                                 8028+*  *       1) REQUEST IS FROM BTAM                            *   *  00247432
                                 8029+*  *       2) CCW-STRING IS NOT CONTIGOUS                     *   *  00248032
                                 8030+*  *     THESE TWO CASES ARE NOT SUPPORTED BY FAST-TRANSLATE.  *   *  00248632
                                 8031+*  *                                                          *   *  00249232
                                 8032+*  *     AFTER THE REPLICA AND DIDAL HAVE BEEN CREATED THE     *   *  00249832
                                 8033+*  *     FASTTR-BIT IN THE CCBFLAG (OF THE COPIED CCB) IS SET  *   *  00250432
                                 8034+*  *     TO SHOW THAT THE CCB IS SUPPORTED BY FAST-TRANSLATE.  *   *  00251032
                                 8035+*  *                                                          *   *  00251632
                                 8036+*  *  ENTRY POINTS:                                          *   *  00252232
                                 8037+*  *     CCWTRANS - FROM CHANNEL SCHEDULER (NORMAL)            *   *  00252832
                                 8038+*  *     CCWTRBT2 - FROM I/O INT. HANDLER FOR BTAM 2ND TIME    *   *  00253432
                                 8039+*  *                                                          *   *  00254032
                                 8040+*  *  INPUT:                                                 *   *  00254632
                                 8041+*  *     R1 -  POINTS TO VIRTUAL CCB                          *   *  00255232
                                 8042+*  *     R8 -  RETURN ADDRESS                                 *   *  00255832
                                 8043+*  *     R9 -  FIRST BASE ADDRESS                             *   *  00256432
                                 8044+*  *                                                          *   *  00257032
                                 8045+*  *  OUTPUT:                                                *   *  00257632
                                 8046+*  *     R1 -  POINTS TO COPIED CCB                           *   *  00258232
                                 8047+*  *     R8 -  UNCHANGED                                      *   *  00258832
                                 8048+*  *     R9 -  UNCHANGED                                      *   *  00259432
                                 8049+*  *                                                          *   *  00260032
                                 8050+*  *  EXTERNAL REFERENCES:                                   *   *  00260632
                                 8051+*  *     TFIX    - ROUTINE TO FIX A PAGE                      *   *  00261232
                                 8052+*  *     TFREE   - ROUTINE TO FREE A PAGE                     *   *  00261832
                                 8053+*  *     RWAIT   - ROUTINE TO GO INTO WAIT STATUS             *   *  00262432
                                 8054+*  *                                                          *   *  00263032
                                 8055+*  *  EXITS NORMAL:                                          *   *  00263632
                                 8056+*  *     RETURN ADDRESS IN R8                                 *   *  00264232
                                 8057+*  *                                                          *   *  00264832
                                 8058+*  *  EXITS ERROR:                                           *   *  00265432
                                 8059+*  *     ERR11   - UNSUPPORTED DEVICE                         *   *  00266032
                                 8060+*  *     ERR12   - INSUFFICIENT BUFFER SPACE                  *   *  00266632
                                 8061+*  *     ERR13   - LENGTH OF I/O AREA > 32K                   *   *  00267232
                                 8062+*  *     ERR14   - PAGE POOL TOO SMALL                        *   *  00267832
                                 8063+*  *     ERR25   - INVALID ADDRESS                            *   *  00268432
                                 8064+*  *     CCWTERR - NOT ENOUGH COPY BUFFERS FOR BTAM 2ND TIME   *   *  00269032
                                 8065+*  *               TRANSLATION, OR                            *   *  00269632
                                 8066+*  *             - CORFIXIN SUBROUTINE FINDS PAGE THAT IS TO   *   *  00270232
                                 8067+*  *               BE FREED IS NOT IN CORE                    *   *  00270832
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 8068+*  *                                                                *   *  00271432
                                 8069+*  *  SUBROUTINES:                                                  *   *  00272032
                                 8070+*  *     GETTCB, GETBLOCK, GETCCW, SETFLAG, TESTIDAL, LOCATE,       *   *  00272632
                                 8071+*  *     FIXAREA, DISPLRTN, UNFIX, FREE0, RELTCB, RELBLOCK,         *   *  00273232
                                 8072+*  *     CORFIXIN, RELCCB, RELALL, CCWRSVC, SETBACK, DELENT,        *   *  00273832
                                 8073+*  *     CCBMOVE, CCWDEACT, FASTTRNS, CREATREP, TESTREPL,           *   *  00274432
                                 8074+*  *     DELREPL, FREECCB, DEFIC, PACKDDAL, ENQTOP, DEQUEU          *   *  00275032
                                 8075+*  *                                                                *   *  00275632
                                 8076+*  *  TABLES:                                                       *   *  00276232
                                 8077+*  *     DEVTRTAB  - TRANSLATE TABLE FOR DEVICE TYPE                *   *  00276832
                                 8078+*  *     DEVLIST   - LIST POINTS                                    *   *  00277432
                                 8079+*  *     DEVL1ST   - TABLE FOR TP STATUS MODIFIER COMMANDS          *   *  00278032
                                 8080+*  *     DEVL2ST   - TABLE FOR DASD STATUS MODIFIER COMMANDS        *   *  00278632
                                 8081+*  *     DEVLXCD   - (X=1,2,...9,) CONTROL COMMANDS WITH DATA       *   *  00279232
                                 8082+*  *     FREETKT   - TRANSL. AND TEST TABLE FOR FIXINF BITSTRING    *   *  00279832
                                 8083+*  *     RQHDRT    - REPLICA QUEUE HEADER TABLE (FAST-TRANSLATE)    *   *  00280432
                                 8084+*  *                 - CONTAINING QUEUE HEADERS BY PARTITION.       *   *  00281032
                                 8085+*  *                 - THIS TABLE IS ACCESSED FROM 'RQBASE' AS      *   *  00281632
                                 8086+*  *                 - THE ABSOLUTE BASE WITH PIK/4 AS AN INDEX.    *   *  00282232
                                 8087+*  *                                                                *   *  00282832
                                 8088+*  *  REGISTER CHANGED:                                             *   *  00283432
                                 8089+*  *     R1                                                         *   *  00284032
                                 8090+*  *                                                                *   *  00284632
                                 8091+*  *  NOTES:                                                        *   *  00285232
                                 8092+*  *  1. SINCE FAST-TRANSLATE SUPPORT GIVES AN INCREASE OF ABOUT     *   *  00285832
                                 8093+*  *     1.2K BYTES, A SECOND BASE REGISTER HAD TO BE ADDED:         *   *  00286432
                                 8094+*  *     R9          - 1ST BASE REGISTER, AS USED ALREADY           *   *  00287032
                                 8095+*  *     RB          - 2ND BASE REGISTER, ADDED                     *   *  00300032
                                 8096+*  *  2. IN LOWCORE 3 NEW FIELDS:                                   *   *  00300232
                                 8097+*  *     A) ACCWT2   - SECOND BASE ADDRESS (4 BYTES)                *   *  00300432
                                 8098+*  *     B) DEFIXSW  - SWITCH FOR DEFIX-RT. (1 BYTE)                *   *  00300632
                                 8099+*  *     C) LOWFXPTR - PTR USED BY DEFIX-RTN'S. (2 BYTES)           *   *  00300832
                                 8100+*  *  3. TASK CONTROL BLOCK HAS NOW 132 INSTEAD OF 112 BYTES.       *   *  00301032
                                 8101+*  *  4. CCB COPY HAS 2 FORMATS NOW, DEPENDING ON WHICH QUEUE       *   *  00301232
                                 8102+*  *     IT RESIDES: ACTIVE/SAVED-CCB-COPY-BLOCK-Q (SEE DSECT)      *   *  00301432
                                 8103+*  *                                                                *   *  00301632
                                 8104+*  *                                                                *   *  00301832
                                 8105+*************************************************************************  00302032
                                 8106+*************************************************************************  00303032


                          06B70  8108+CCWTADR  EQU   *                                                        01250028


                                 8110+*****   BUFFER MANAGEMENT INFORMATION *****                            02350028

                                 8112+*       ACCBB HAS TO HAVE OFFSET 0 FROM CCWTADR THIS                   02410028
                                 8113+*       IS USED BY 'STAND ALONE DUMP'                                  02420028
006B70 00000000                  8114+ACCBB   DC    A(0) .             ADDRESS OF CCB COPY BLOCK QUEUE       02450028
```

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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

006B74 00000000                  8115+AUTCB    DC    A(0) .              POINTER TO USED TCB QUEUE            02550028
006B78 00011248                  8116+ABTMTCB  DC    A(BTMTCB) .         POINTER TO BTAM 2ND TIME TCB         02585028
006B7C 0001DCBC                  8117+RQBASE   DC    A(RQHDRT-(REPFPT-REPLICA))  ADDR REPLI QUEU BA  @D32XDRP 02590032
006B80                           8118+CCWERA   DS    15F          SAVE AREA FOR ENTRY REG.            @D32XDRP 02690032

006BBC 00                        8120+FREETKT  DC    AL1(0) .            0                            @D32XDRP 02720032
006BBD 08                        8121+         DC    AL1(8) .            1                            @D32XDRP 02730032
006BBE 0707                      8122+         DC    2AL1(7) .           10...11                      @D32XDRP 02740032
006BC0 06060606                  8123+         DC    4AL1(6) .           100...111                    @D32XDRP 02750032
006BC4 0505050505050505          8124+         DC    8AL1(5) .           1000...1111                  @D32XDRP 02760032
006BCC 0404040404040404          8125+         DC    16AL1(4) .          100000...11111               @D32XDRP 02770032
006BDC 0303030303030303          8126+         DC    32AL1(3) .          100000...111111              @D32XDRP 02780032
006BFC 0202020202020202          8127+         DC    64AL1(2) .          1000000...1111111            @D32XDRP 02790032
006C3C 0101010101010101          8128+         DC    128AL1(1) .         10000000...11111111          @D32XDRP 02800032
```

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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 8131+*****    ESTABLISH ADDRESSIBILITY OF DUMMY CONTROL SECTIONS *****       03000028

                           00000  8133+         USING CCBADR,R1 .         CCB/CCB COPY BLOCK                  03100028
                           00000  8134+         USING PUBADR,R3 .         PUB ENTRY                           03150028
                           00000  8135+         USING CCWBLOCK,R4 .       CCW COPY BLOCK                      03200028
                           00000  8136+         USING CCWADR,R5 .         REAL CCW                            03250028
                           00000  8137+         USING VCCWADR,R6 .        VIRTUAL CCW                         03300028
                           00000  8138+         USING TICCCW,R7 .         TIC COMMAND                         03350028
                           00000  8139+         USING PIBADR,RA .         PIB ENTRY                           03400028
                           00000  8140+         USING CCWTCB,RF .         CCW TRANSLATION CONTROL BLOCK       03450028
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 8142+*        GENERAL FUNCTIONS                                                 07950028
                                 8143+*        BUILDING REAL CCB AND CHANNEL PROGRAM FROM NONREAL I/O REQ.       08000028
                                 8144+*        CCB AND USER SENSE CCW WILL BE COPIED.THE COPY WILL CONSERVE      08050028
                                 8145+*        THE CHANNEL PROGR.STRUCTURE,BUT IN SOME CASES TIC COMMANDS        08100028
                                 8146+*        WILL BE INSERTED.THE I/O ADDRESS IN A NONREAL PARTITION WILL      08150028
                                 8147+*        BE TRANSLATED INTO CORRESPONDING REAL ADDRESS.AN IDAL WILL BE     08200028
                                 8148+*        BUILD IF AN I/O AREA CROSSES PAGE BOUNDERY.THE IDAL WILL CONT.    08250028
                                 8149+*        THE REAL ADDRESS OF THE I/O AREA.IN THE COPIED CHANNEL PROGRAM    08300028
                                 8150+*        THE IDAL ADDRESS WILL BE REPLACED BY THE VIRTUAL ADDRESS AND      08350028
                                 8151+*        THE IDAL BIT IN THE SAME CCW WILL BE TURNED ON,IF THE VIRTUAL     08400028
                                 8152+*        CHANNEL PROGRAM ALREADY USES IDAL FEATURE.ALL I/O AREAS NEEDED    08450028
                                 8153+*        BY THE CHANNEL PROGRAM HAVE TO BE IN REAL MEMORY UNTIL I/O        08500028
                                 8154+*        REQUEST IS FINISHED(PAGES ARE FIXED AND NO PAGE FAULT WILL        08550028
                                 8155+*        EXISTS)IN THE COPIED CCB THE ADDRESS OF THE VIRTUAL CHANNEL       08600028
                                 8156+*        PROGRAM WILL BE REPLACED BY THE ADDRESS OF COPIED CHANNEL PRGR    08650028
                                 8157+*        ALL DOS I/O SV ROUTINES WILL WORK ON THE COPY.                    08700028
                                 8158+*                                                                          08750028
                                 8159+*        CCWTRANS WILL BE CALLED FROM  CHANNEL SCHEDULER(EXCP)             08800028
                                 8160+*        AND WILL CALL                 GETTCB,GETBLOCK,TESTIDAL,GETCCW     08850028
                                 8161+*                                      LOCATE,FIXAREA,RWAIT,RELALL         08900028
                                 8162+*                                      RELTCB                              08950028


                          06B70  8164+         USING CCWTADR,R9                                      @D32XDRP 09050032
                                 8165+         DROP  RB                    DROP STANDARD SYTEM BASE  @D34RDFG 09051034


                                 8167+*                                                                          09054028
                                 8168+*        ENTRY FROM I/O INTERRUPT HANDL. FOR BTAM 2ND TIME                 09058028
                                 8169+*                                                                          09062028
006CBC 90EF 9010          06B80  8170+CCWTRBT2 STM   RE,RF,CCWERA .        SAVE ENTRY REGISTERS                09066028
006CC0 58F0 9008          06B78  8171+         L     RF,ABTMTCB .          POINT TO BTAM TCB                   09070028
006CC4 45E0 9978          074E8  8172+         BAL   RE,GETTCB2 .          INITIALIZE IT                       09074028
006CC8 47F0 9164    06CD4        8173+         B     CCWTRB1 .             TEST DEVICE                         09078028


                                 8175+*                                                                          09090028
                                 8176+*        ENTRY FROM CHANNEL SCHEDULER                                      09094028
                                 8177+*                                                                          09098028
006CCC 90EF 9010          06B80  8178+CCWTRANS STM   RE,RF,CCWERA .        SAVE ENTRY REGISTERS                09100028
006CD0 45E0 9966          074D6  8179+         BAL   RE,GETTCB .           GET TCB BLOCK AND INITIALIZE IT     09150028
                          06CD4  8180+CCWTRB1  EQU   *                                               @D32XDRP 09153032
006CD4 58B0 08C8          008C8  8181+         L     RB,ACCWT2             LOAD SECOND BASE REQ      @D32XDRP 09160032
                          06B70  8182+         USING CCWTADR,R9,RB                                   @D32XDRP 09165032


                                 8184+*        TEST DEVICE TYPE FOR SPECIAL DEVICE (STATUS MODIFIER              09250028
                                 8185+*        COMMANDS AND/OR CONTROL COMMANDS WITH DATA ADDRESSES).            09300028
```

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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

006CD8 D200 B61F 3004 0818F 00004  8187+         MVC   DEVTYPE(L1),PUBDEVTY MOVE DEV TYPE IN WORKB.2   @D32XDRP 09400032
                                   8188+         DROP  R3                                                        09450028
006CDE DC00 B61F B670 0818F 081E0  8189+         TR    DEVTYPE(L1),DEVTRTAB TRANSLATE DEVICE TYPE                09500028
006CE4 95FE B61F      0818F        8190+         CLI   DEVTYPE,NORMDEV .    NORMAL DEVICE?                       09550028
006CE8 4780 9192      06D02        8191+         BE    CCWTR00 .            YES                                  09650028
006CEC 95FF B61F      0818F        8192+         CLI   DEVTYPE,TUNSP ..     UNSUPPORTED DEVICE?                  09800028
006CF0 4780 9E3A      079AA        8193+         BE    ERROR2 .             YES,ERROR                            09850028
006CF4 4820 B61E            0818E  8194+         LH    R2,DEVWORK .         LOAD DISPLACEMENT                    09900028
006CF8 4122 B620            08190  8195+         LA    R2,DEVLIST(R2) .     POINT TO THE LIST POINTERS           09925028
006CFC D207 F004 2000 00004 00000  8196+         MVC   DEVSTPTR(L8),D0(R2) STORE POINTERS TO SPECIAL            09950028
                                   8197+*                                   COMMAND LISTS IN CCWTCB              10000028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8199+*        COPY VIRTUAL CCB. INITIALIZE TRANSLATION PROCESS.              10100028

006D02 9160 1006      00006       8201+CCWTR00  TM    CCBCLS,BTAM+CCBCOPY REQUEST FROM BTAM ?                  10220028
006D06 4780 91DC      06D4C       8202+         BZ    CCWTR01A .          IF NOT, TRY TO FIND MATCHIN @D32XDRP 10240032
006D0A 4740 91D2      06D42       8203+         BM    CCWTR01 .           BRANCH IF NOT BTAM 2ND TIME AROUND   10300028
006D0E D200 F001 1001 00001 00001 8204+         MVC   ADBTAMCB,TBTAMCB .  SAVE TOTAL NUMBER OF COPY BLOCKS     10325028
006D14 5840 1020            00020 8205+         L     R4,CCBACB .         POINT TO CCW COPY BLOCK QUEUE        10350028
006D18 4530 9B36            076A6 8206+         BAL   R3,RELBLOCK .       RELEASE CCW COPY BLOCKS              10375028
006D1C BF4F 1024            00024 8207+         ICM   R4,M15,CCBICB .     POINT TO IDAL BLOCK QUEUE            10400028
006D20 4780 91BE      06D2E       8208+         BZ    CCWTR00A .          IDAL BLOCK QUEUE AVAILABLE           10425028
006D24 4530 9B36            076A6 8209+         BAL   R3,RELBLOCK .       RELEASE IDAL BLOCKS                  10450028
006D28 D703 1024 1024 00024 00024 8210+         XC    CCBICB,CCBICB .     CLEAR POINTER TO IDAL BLOCK          10475028
                            06D2E 8211+CCWTR00A EQU   *                                                        10550028
006D2E D703 1020 1020 00020 00020 8212+         XC    CCBACB,CCBACB .     CLEAR POINTER TO CCW COPY BLOCK      10600028
006D34 5840 101C            0001C 8213+         L     R4,CCBVA .          POINT TO VIRTUAL CCB                 10650028
006D38 D202 1009 4009 00009 00009 8214+         MVC   CCBCCW+D1(L3),CCBCCW+D1-CCBADR(R4) COPY POINTER TO CCW  10700028
006D3E 47F0 920C      06D7C       8215+         B     CCWTR02 .           CCB COPY BLOCK ALREADY AVAILABLE     10750028
006D42 D200 F001 1001 00001 00001 8216+CCWTR01  MVC   ADBTAMCB,CCBCNT+D1 .SAVE ADDITIONAL COPY BLOCKS (BTAM)   10800028
006D48 47F0 91E0      06D50       8217+         B     CCWTR01B            DON'T TEST REPLICA FOR BTAM @D32XDRP 10805032
                            06D4C 8218+CCWTR01A EQU   *                                                        10825028
                            06D4C 8219+CCWREST  EQU   * .                 AT THIS POINT CCWTRANSL IS  @D32XDRP 11000132
                                  8220+*                                  RESTAR.AFTER IT WAS SET BACK@D32XDRP 11000232
                                  8221+*        R1 POINTS TO VIRTUAL CCB                             @D32XDRP 11000332
                                  8222+*        RF POINTS TO CCWTCB                                  @D32XDRP 11003332
006D4C 4580 B192            07D02 8223+         BAL   R8,TESTREPL         TRY TO FIND MATCHING REPL.  @D32XDRP 11009332
                                  8224+*                                  TESTREPL DOESN'T RETURN HERE@D32XDRP 11012332
                                  8225+*                                  IF A MATCH.REPL. IS FOUND   @D32XDRP 11015332
                            06D50 8226+CCWTR01B EQU   *                                                @D32XDRP 11018332
006D50 4530 99CA            0753A 8227+         BAL   R3,GETBLOCK .       GET CCB COPY BLOCK                   11050028
006D54 1741                       8228+         XR    R4,R1 .             EXCHANGE CONTENTS OF REGISTERS       11100028
006D56 1714                       8229+         XR    R1,R4                                                    11150028
006D58 1741                       8230+         XR    R4,R1 .             POINT TO COPIED CCB                  11200028
006D5A D201 1018 F002 00018 00002 8231+         MVC   CCBPIK,TCBPIK .     MOVE PIK TO COPIED CCB BLOCK         11250028
006D60 D203 1044 9000 00044 06B70 8232+         MVC   CCBNEXT,ACCBB .     ENQUEUE CCB COPY BLOCK QUEUE         11300028
006D66 5010 9000            06B70 8233+         ST    R1,ACCBB .          STORE ADDRESS OF NEW BLOCK           11350028
006D6A 5040 101C            0001C 8234+         ST    R4,CCBVA .          STORE ADDRESS OF VIRTUAL CCB         11400028
006D6E 5010 F014            00014 8235+         ST    R1,TCBACCB .        SAVE ADDRESS OF COPY CCB FOR CANCEL  11450028
006D72 D20F 1000 4000 00000 00000 8236+         MVC   CCBADR(L16),D0(R4) .COPY CCB                         11500028
006D78 9620 1006      00006       8237+         OI    CCBCLS,CCBCOPY .    MARK CCB-COPY                        11550028
006D7C 9200 1001      00001       8238+CCWTR02  MVI   UBTAMCB,ZERO .       SET INITIAL VALUE FOR USED COPYBL.   11650028
006D80 9120 100C      0000C       8239+         TM    CCBBY3,USENSE .     TEST FOR USER SENSE CCW     @DF00882 11950028
006D84 4780 922E      06D9E       8240+         BZ    CCWTR1 .            NOT AVAILABLE                        12000028
006D88 D207 1010 4010 00010 00010 8241+         MVC   CCBSENS,D16(R4) .   COPY USER SENSE CCW IN COPY BLOCK    12050028
                            06D8E 8242+PCKADR4  EQU   * .                 ADDR. FOR PROGR. CHECK HANDLER       12100028
006D8E 4150 1010            00010 8243+         LA    R5,CCBSENS .        LOAD ADDRESS OF SENSE CCW            12150028
006D92 9640 F000      00000       8244+         OI    TCBFLAG,TCBRDS      IND. SENSE FOR TESTIDAL     @DM01978 12175028
006D96 4530 9554            070C4 8245+         BAL   R3,TESTIDAL .       TRANSLATE DATA ADDRESS OR BUILD IDAL 12200028
006D9A 94BF F000      00000       8246+         NI    TCBFLAG,X'FF'-TCBRDS RESET SENSE            @DM01978 12225028
006D9E 4530 99CA            0753A 8247+CCWTR1   BAL   R3,GETBLOCK .       GET 1ST CCW COPY BLOCK               12250028
006DA2 5040 1020            00020 8248+         ST    R4,CCBACB .         ENQUEUE IN CCW COPY BLOCK QUEUE      12300028
006DA6 9280 4038      00038       8249+         MVI   TIC1,EOCL .         INITIALIZE                           12350028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

006DAA 9288 4040      00040        8250+         MVI   TIC2,EOCL+TIC .              CCW COPY BLOCK            12400028
006DAE 1B66                        8251+         SR    R6,R6                                                  12450028
006DB0 BF67 1009            00009  8252+         ICM   R6,M7,CCBCCW+D1 .   POINT TO 1ST VIRTUAL CCW          12500028
006DB4 5060 403C            0003C  8253+         ST    R6,VBA .            SET VIRTUAL BLOCK ADDRESS (VBA)    12550028
006DB8 5060 F044            00044  8254+         ST    R6,VCCWAD1          INITIALIZE EXPECTED VIRTUAL @D32XDRP 12560032
                                   8255+*                                 CCW-ADDRESS.                @D32XDRP 12570032
006DBC BE47 1009            00009  8256+         STCM  R4,M7,CCBCCW+D1 .   STORE ADDRESS OF COPY BLOCK IN      12600028
                                   8257+*                                 CCWADR OF COPIED CCB               12650028
006DC0 1854                        8258+         LR    R5,R4 .             POINT TO 1ST CCW COPY LOCATION     12700028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8260+*        SCANNING THROUGH THE VIRTUAL CHANNEL PROGRAM.IF A STATUS MOD.  12800028
                                  8261+*        COMMAND WITH A FOLLOWING TIC IS FOUND A NEW ENTRY FOR A LINE   12850028
                                  8262+*        CHAIN IS STACKED.THIS STACK IS HANDLED BY FIFO.IF A STATUS     12900028
                                  8263+*        MOD.COMMAND WILL BE COPIED INTO THE LAST COPY LOCATION OF A    12950028
                                  8264+*        COPY BLOCK,AN ENTRY FOR A BLOCK END IS STACKED.THIS IS A FIFO  13000028
                                  8265+*        STACK TOO.A NEW SCAN WILL START AT A POINT INDICATED BY AN     13050028
                                  8266+*        ENTRY FROM THE BLOCK END STACK WHEN ALL ENTRIES FROM THE LINE  13100028
                                  8267+*        STACK ARE PROCESSED.                                           13150028

006DC2 4520 9420        06F90  8269+CCWTR2   BAL   R2,GETCCW .          COPY CCW FROM VIRT.TO REAL LOCATION  13250028
006DC6 47F0 9300 06E70         8270+         B     CCWTR14 .           TIC COMMAND COPIED                   13300028
006DCA 91C0 5004 00004         8271+CCWTR3   TM    CCWCHAIN,DC+CC .    DATA OR COMMAND CHAINING?            13350028
006DCE 4780 92B4 06E24         8272+         BZ    CCWTR10 .           NO CHAINING                          13400028
006DD2 4160 6008        00008  8273+CCWTR4   LA    R6,VCCWNEXT .       POINT TO NEXT VIRTUAL CCW            13450028
006DD6 4150 5008        00008  8274+         LA    R5,CCWNEXT .        POINT TO NEXT COPY LOCATION          13500028
006DDA 9108 F000 00000         8275+         TM    TCBFLAG,TCBSM2 .    LAST COMMAND STATUS MODIFIER?        13550028
006DDE 4710 9316 06E86         8276+         BO    CCWTR16 .           YES                                  13600028
006DE2 9500 5000 00000         8277+CCWTR5   CLI   CCWCODE,ZERO .      NEW COPY LOCATION FREE?              13650028
006DE6 4780 9252 06DC2         8278+         BE    CCWTR2 .            YES                                  13700028
006DEA 9580 5000 00000         8279+         CLI   CCWCODE,EOCL .      END OF COPY BLOCK?                   13750028
006DEE 4770 92B4 06E24         8280+         BNE   CCWTR10 .           NO,END OF LINE                       13800028
006DF2 1875                    8281+CCWTR6   LR    R7,R5 .             POINT TO LOC.INDICATED BY ENDTIC     13850028
006DF4 9608 7000 00000         8282+         OI    TICCODE,TIC .       CHANGE BLOCKEND TO ENDTIC            13900028
006DF8 4520 966E        071DE  8283+         BAL   R2,LOCATE1 .        POINT TO 1ST COPY LOC OF NEXT BLOCK  13950028
006DFC 9500 5000 00000         8284+CCWTR7   CLI   CCWCODE,ZERO .      NEW COPY LOCATION FREE?              14000028
006E00 4770 92A4 06E14         8285+         BNE   CCWTR8 .            NO                                   14050028
006E04 4520 9420        06F90  8286+         BAL   R2,GETCCW .         COPY CCW FROM VIRT.TO REAL LOC.      14100028
006E08 47F0 9302 06E72         8287+         B     CCWTR15 .           TIC COMMAND                          14150028
006E0C BE57 7001        00001  8288+         STCM  R5,M7,TICADR .      SET UP ENDTIC ADDR.WITH VIRT.ADDR.   14200028
006E10 47F0 925A 06DCA         8289+         B     CCWTR3                                                   14250028
006E14 9177 5000 00000         8290+CCWTR8   TM    CCWCODE,ANYTIC .    ANY TIC IN COPY LOCATION?            14300028
006E18 4770 92B0 06E20         8291+         BNZ   CCWTR9 .            NO                                   14350028
006E1C 5850 5000        00000  8292+         L     R5,CCWBUF .         LOAD ADDR FROM TIC                   14400028
006E20 BE57 7001        00001  8293+CCWTR9   STCM  R5,M7,TICADR .      SET UP ENDTIC ADDR.                  14450028

                                  8295+*        END OF LINE HANDLING                                           14550028

006E24 5850 F00C        0000C  8297+CCWTR10  L     R5,LINEPTR .        LOAD/TEST                  @DF00882  14650028
006E28 1255                    8298+         LTR   R5,R5 .           POINTER TO NEXT LINE       @DF00882  14660028
006E2A 4780 92C8 06E38         8299+         BZ    CCWTR11 .          LINEPTR=0                            14700028
                               8300+         DROP    R7                                                     14750028
                        00000  8301+         USING TICCCW,R5                                              14800028
006E2E D203 F00C 5004 0000C 00004 8302+      MVC   LINEPTR,TICLINE .   SET LINEPTR BACK                   14850028
                        00000  8303+         USING CCWADR,R5                                              14900028
                        00000  8304+         USING TICCCW,R7                                              14950028
006E34 47F0 9300 06E70         8305+         B     CCWTR14 .           HANDLE USER TIC                      15000028
006E38 5870 F010        00010  8306+CCWTR11  L     R7,BENDPTR .    LOAD/TEST BLOCKEND POINTER  @DF00882  15050028
006E3C 1277                    8307+         LTR   R7,R7 .                                    @DF00882  15060028
006E3E 4780 935A 06ECA         8308+         BZ    CCWTR19 .           BLOCKEND PTR=0                       15100028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

006E42 D202 F011 7001 00011 00001  8309+         MVC   BENDPTR+D1(L3),TICADR SET BLOCK END POINTER BACK         15150028
006E48 4150 7004            00004  8310+         LA    R5,TICLINE .        FIND ADDRESS OF NEXT BLOCK           15200028
006E4C 95FF 5000      00000        8311+CCWTR12  CLI   CCWCODE,EOB .       END OF BLOCK?                        15250028
006E50 4780 92EC      06E5C        8312+         BE    CCWTR13 .           YES,FOUND                            15300028
006E54 4150 5008            00008  8313+         LA    R5,CCWNEXT .        POINT TO NEXT LOCATION               15350028
006E58 47F0 92DC      06E4C        8314+         B     CCWTR12                                                  15400028
006E5C 5840 5000            00000  8315+CCWTR13  L     R4,CCWBUF .         LOAD ADDR OF NEXT BLOCK              15450028
006E60 5860 403C            0003C  8316+         L     R6,VBA .            GET VBA OF BLOCK                     15500028
006E64 4160 6008            00008  8317+         LA    R6,VCCWNEXT .                                            15550028
006E68 4520 965E            071CE  8318+         BAL   R2,LOCATE .         POINT TO TRUE COPY LOCATION          15600028
006E6C 47F0 928C      06DFC        8319+         B     CCWTR7                                                   15650028



                                   8321+*        USER TIC COMMAND HANDLING                                    15750028

006E70 1875                        8323+CCWTR14  LR    R7,R5 .             POINT TO COPIED TIC                  15850028
006E72 5860 5000            00000  8324+CCWTR15  L     R6,CCWBUF .         POINT TO LOGICAL NEXT       @DF00882 15900028
006E76 4166 0000            00000  8325+         LA    R6,D0(R6) .         VIRTUAL CCW                 @DF00882 15950028
006E7A 4520 965E            071CE  8326+         BAL   R2,LOCATE .         POINT TO TRUE COPY LOCATION          16000028
006E7E BE57 7001            00001  8327+         STCM  R5,M7,TICADR .      INSERT NEW AND TRUE COPY LOC.        16050028
006E82 47F0 9272      06DE2        8328+         B     CCWTR5                                                   16100028



                                   8330+*        STATUS MODIFIER COMMAND HANDLING                             16200028

006E86 94F7 F000      00000        8332+CCWTR16  NI    TCBFLAG,X'FF'-TCBSM2  RESET STATUS MOD BIT IN CCWTCB     16300028
006E8A 9500 5000      00000        8333+         CLI   CCWCODE,ZERO .       NEW COPY LOCATION FREE?              16350028
006E8E 4780 9340      06EB0        8334+         BE    CCWTR17 .           YES                                  16400028
006E92 9580 5000      00000        8335+         CLI   CCWCODE,EOCL .      END OF COPY BLOCK?                   16450028
006E96 4770 9262      06DD2        8336+         BNE   CCWTR4 .            NO                                   16500028
006E9A 4170 5008            00008  8337+         LA    R7,CCWNEXT .        SET NEW                              16550028
006E9E D202 7001 F011 00001 00011  8338+         MVC   TICADR,BENDPTR+D1 .       BLOCKENDPTR TO               16600028
006EA4 5070 F010            00010  8339+         ST    R7,BENDPTR .                        END OF COPY BLOCK 16650028
006EA8 92FF 4044      00044        8340+         MVI   ANB,EOB .           SET END OF BLOCK                     16700028
006EAC 47F0 9282      06DF2        8341+         B     CCWTR6                                                   16750028
006EB0 4520 9420            06F90  8342+CCWTR17  BAL   R2,GETCCW .         COPY CCW FROM VIRT.TO REAL LOC.      16800028
006EB4 47F0 934C      06EBC        8343+         B     CCWTR18 .           TIC COMMAND COPIED                   16850028
006EB8 47F0 9262      06DD2        8344+         B     CCWTR4 .            NO TIC                               16900028
                                   8345+         DROP  R7                                                       16950028
                            00000  8346+         USING TICCCW,R5                                                17000028
006EBC D203 5004 F00C 00004 0000C  8347+CCWTR18  MVC   TICLINE,LINEPTR .  MOVE OLD LINEPTR TO TIC LOCATION     17050028
                            00000  8348+         USING CCWADR,R5                                                17100028
                            00000  8349+         USING TICCCW,R7                                                17150028
006EC2 5050 F00C            0000C  8350+         ST    R5,LINEPTR .        STORE NEW LINE POINTER               17200028
006EC6 47F0 9262      06DD2        8351+         B     CCWTR4                                                   17250028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   8354+*        TRANSLATE IDA WORDS AND FIX CORRESPONDING I/O AREAS            17400028

006ECA BF4F 1024            00024  8356+CCWTR19  ICM   R4,M15,CCBICB .     LOAD/TEST ADDR OF IDAL BLOCK         17500028
006ECE 4780 9380      06EF0        8357+         BZ    CCWTR28 .           NO IDAL BLOCK QUEUE                  17550028
006ED2 1854                        8358+CCWTR25  LR    R5,R4 .             POINT TO 1ST IDA WORD OF BLOCK       17600028
006ED4 95FF 5000      00000        8359+CCWTR26  CLI   CCWCODE,EOB .       LOGICAL END OF IDA BLOCK?            17650028
006ED8 4780 9378      06EE8        8360+         BE    CCWTR27 .           YES                                  17700028
006EDC 4530 96FA            0726A  8361+         BAL   R3,FIXAREA .        TRANSLATE IDA WORDS AND FIX          17750028
006EE0 4155 0004            00004  8362+         LA    R5,D4(R5) .         POINT TO NEXT IDA WORD OF BLOCK      17800028
006EE4 47F0 9364      06ED4        8363+         B     CCWTR26                                                  17850028
006EE8 BF47 4045            00045  8364+CCWTR27  ICM   R4,M7,ANB+D1 .      LOAD/TEST ADDR OF NEXT IDAL BLOCK    17900028
006EEC 4770 9362      06ED2        8365+         BNZ   CCWTR25 .           IDAL BLOCK QUEUE NOT FINISHED        17950028

                                   8367+*        TERMINATE CCW TRANSLATION AND RETURN                           18050028

                            06EF0  8369+CCWTR28  EQU   *                                                        18150028
006EF0 9140 1006      00006        8370+         TM    CCBCLS,BTAM .       BTAM REQUEST?                        18250028
006EF4 47E0 93CA      06F3A        8371+         BNO   CCWTR31 .           NO, BRANCH                           18300028
                                   8372+*                                  YES,ENQUEUE ADDITIONAL COPY BLOCKS   18350028
006EF8 1BDD                        8373+         SR    RD,RD .             CLEAR REGISTER                       18400028
006EFA 18ED                        8374+         LR    RE,RD                                                    18450028
006EFC 43E0 1001            00001  8375+         IC    RE,UBTAMCB .        NUMBER OF USED COPY BLOCKS           18500028
006F00 BFD1 F001            00001  8376+         ICM   RD,M1,ADBTAMCB .    ADDITIONAL BLOCKS NEEDED BY BTAM?    18550028
006F04 4780 93AC      06F1C        8377+         BZ    CCWTR30 .           NO                                   18600028
006F08 1AED                        8378+         AR    RE,RD .             RE=TOTAL NUMBER OF COPY BLOCKS(BTAM) 18650028
                            06F0A  8379+CCWTR29  EQU   *                                                        18700028
006F0A 4530 99CA            0753A  8380+         BAL   R3,GETBLOCK .       GET RESERVED COPY BLOCKS FOR BTAM    18750028
006F0E D203 4044 1024 00044 00024  8381+         MVC   ANB,CCBICB .        ENQUEUE RESERVED COPY BLOCK          18800028
006F14 5040 1024            00024  8382+         ST    R4,CCBICB .         STORE NEW POINTER                    18850028
006F18 46D0 939A            06F0A  8383+         BCT   RD,CCWTR29 .        BRANCH IF MORE BLOCKS ARE NEEDED     18900028
006F1C 42E0 1001            00001  8384+CCWTR30  STC   RE,TBTAMCB .        SAVE TOTAL NUMBER                    18950028
006F20 9110 101A      0001A        8385+         TM    CCBFLAG,BTAM2 .     BTAM 2ND TIME?                       19000028
006F24 4780 93C2      06F32        8386+         BZ    CCWTR30A .          NO                                   19050028
006F28 982F F048            00048  8387+         LM    R2,RF,SAVEREG2 .    RELOAD ENTRY REGISTERS FROM BTMTCB   19060028
006F2C 5890 070C            0070C  8388+         L     R9,AINTER .         LOAD ADDR OF I/O INTERRUPT HANDL.    19070028
006F30 07F8                        8389+         BR    R8 .                RETURN TO I/O INTERRUPT HANDL.       19080028
006F32 9610 101A      0001A        8390+CCWTR30A OI    CCBFLAG,BTAM2 .     SET BIT FOR BTAM 2ND TIME            19100028
006F36 47F0 93DA      06F4A        8391+         B     CCWTR31A                                  @D32XDRP   19120032
                            06F3A  8392+CCWTR31  EQU   *                                                        19200028
006F3A 9101 F000      00000        8393+         TM    TCBFLAG,RFLAG       IS REPLICA TO BE CREATED?  @D32XDRP   19230032
006F3E 4780 93DA      06F4A        8394+         BZ    CCWTR31A            NO, BRANCH                 @D32XDRP   19260032
006F42 45A0 B2A6            07E16  8395+         BAL   RA,CREATREP         CREATE REPLICA             @D32XDRP   19290032
006F46 9608 101A      0001A        8396+         OI    CCBFLAG,FASTTR      SET FAST-TRANS FLAG        @D32XDRP   19320032
                            06F4A  8397+CCWTR31A EQU   *                                               @D32XDRP   19340032
006F4A 9680 101A      0001A        8398+         OI    CCBFLAG,XCOMPL .    INDICATE TRANSL. COMPLETE            19375028
006F4E 9140 101A      0001A        8399+         TM    CCBFLAG,TTFIX .     ANY PAGE FIXED?                      19400028
006F52 4780 93F2      06F62        8400+         BZ    CCWTR32 .           NO                         @DF00977   19450028
                            06F56  8401+CCWTR31B EQU   *                                               @D32XDRP   19470032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

006F56 48C0 08F0            008F0  8402+         LH    RC,CNTCOM .          INCREASE NUMBER             @DF00882 19500028
006F5A 41CC 0001            00001  8403+         LA    RC,D1(RC) .          OF COMPLETED TRANSLATIONS   @DF00882 19550028
006F5E 40C0 08F0            008F0  8404+         STH   RC,CNTCOM .          WITH PAGES FIXED            @DF00882 19600028
                            06F62  8405+CCWTR32  EQU   *                                                        19650028
006F62 4140 071C            0071C  8406+         LA    R4,FLPTR .           GET ADDRESS OF CHANNEL QUEUE POINTER 19700028
006F66 95FF 4000      00000       8407+         CLI   D0(R4),NULL .        CHANNEL QUEUE FREE?                  19750028
006F6A 4770 9416      06F86       8408+         BNE   CCWTR33 .            YES                                  19800028
006F6E 58A0 F068            00068  8409+         L     RA,SAVEREGA .        RA POINTS TO PIBADR                  19850028
006F72 9279 A000      00000       8410+         MVI   PIBFLG,CHQBND .      INDICATE WAITCONDITION               19900028
006F76 9200 095F      0095F       8411+         MVI   TRTCHQ,ZERO .        WAIT FOR CHANNEL QUEUE               19950028
006F7A 58E0 0778            00778  8412+         L     RE,APMGR .           LOAD BASE FOR RWAIT                  20000028
006F7E 45CE 0282            00282  8413+         BAL   RC,RWAIT-PMGRADR(RE) GOTO WAIT STATUS                     20050028
006F82 47F0 93F2      06F62       8414+         B     CCWTR32 .            TEST CHANNEL QUEUE AGAIN             20100028
006F86 45C0 9990            07500  8415+CCWTR33  BAL   RC,RELTCB .           RELEASE TCB BLOCK                    20150028
                                   8416+         DROP  RB                                         @D32XDRP      20170032
006F8A 98CF 9010            06B80  8417+         LM    RC,RF,CCWERA .       RESTORE REGISTERS                    20200028
006F8E 07F8                        8418+         BR    R8 .                 RETURN TO CHANNEL SCHEDULER          20450028
                            06B70  8419+         USING CCWTADR,R9,RB                              @D32XDRP      20650032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8421+*        PARAMETER: REG 6 POINTS TO VIRTUAL CCW                          22100028
                                  8422+*                   REG 5 POINTS TO COPY LOCATION                        22150028
                                  8423+*                   REG F POINTS TO CCWTCB                               22200028
                                  8424+*                   REG 2 CONTAINS RETURN ADDRESS                        22250028
                                  8425+*        FUNCTION:  COPY VIRTUAL CCW TO REAL COPY LOCATION: AND DECIDE   22300032
                                  8426+*                   WHETHER THE CHANNEL PROGRAM IS CONTINGUOUS. CCW'S    22320032
                                  8427+*                   WITH INVALID COMMAND CODE WILL BE COPIED WITH THE    22350032
                                  8428+*                   STANDARD OP-CODE X'F0'.TIC COMMANDS WILL BE IN THE   22400028
                                  8429+*                   STANDARD FORM WITH OP-CODE X'08'(USER TIC).          22450028
                                  8430+*                                                                        22500028
                                  8431+*        GETCCW WILL BE CALLED FROM    CCWTRANS                          22550028
                                  8432+*        AND WILL CALL                 SETFLAG,TESTIDAL                  22600028
                                  8433+*        REGISTER USAGE  R2,R3,R5,R6,R9,RC,RF                  @D32XDRP 22650032

                            06F90 8435+GETCCW   EQU   *                                             @D32XDRP 22701032
006F90 9101 F000      00000       8436+         TM    TCBFLAG,RFLAG       IS REPLICA TO BE CREATED?   @D32XDRP 22755932
006F94 4780 943A      06FAA       8437+         BZ    GETCCW0A            NO, BRANCH                  @D32XDRP 22756632
006F98 58C0 F044            00044 8438+         L     RC,VCCWAD1          GET EXPECTED VIRTUAL CCW AD @D32XDRP 22757332
006F9C 19C6                       8439+         CR    RC,R6               IS IT EQUAL TO ACTUAL ADDR? @D32XDRP 22758032
006F9E 4770 945C      06FCC       8440+         BNE   GETCCW5             NO, BRANCH                  @D32XDRP 22758732
006FA2 41CC 0008            00008 8441+GETCCW0  LA    RC,D8(RC)           ADD 8 TO CURRENT VIRT.CCWAD @D32XDRP 22759432
006FA6 50C0 F044            00044 8442+         ST    RC,VCCWAD1          STORE EXPECT. NEXT VIRT.CCW @D32XDRP 22760132
006FAA D207 5000 6000 00000 00000 8443+GETCCW0A MVC   CCWTOT,VCCWTOT      COPY VIRT CCW TO REAL LOC   @D32XDRP 22761532
                                  8444+*                               LOCATION                    @DA01239 22762531
                            06FB0 8445+PCKADR5  EQU   * .                 ADDR. FOR PROGR. CHECK HANDLER        22800028
006FB0 9107 5000      00000       8446+         TM    CCWCODE,X'07' .     ANY COMMAND OTHER THAN TIC? @DF00882 23050028
006FB4 4770 9484      06FF4       8447+         BNZ   GETCCW2 .           YES                                  23100028
006FB8 9108 5000      00000       8448+         TM    CCWCODE,TIC .       TIC COMMAND?                         23150028
006FBC 4780 947C      06FEC       8449+         BZ    GETCCW1 .           NO,INVALID COMMAND                   23200028
006FC0 9208 5000      00000       8450+         MVI   CCWCODE,TIC .       BUILD STANDARD USER TIC COMMAND      23250028
006FC4 D703 5004 5004 00004 00004 8451+         XC    CCWCHAIN(L4),CCWCHAIN CLEAR UNUSED PART OF TIC COMMAND  23300028
006FCA 07F2                       8452+         BR    R2 .                RETURN TO CCWTRANS TIC EXIT          23350028
006FCC 94FE F000      00000       8453+GETCCW5  NI    TCBFLAG,XFF-RFLAG   RESET REPLICA CREATION FLAG @D32XDRP 23362032
006FD0 58C0 F034            00034 8454+         L     RC,TCBDCB           LOAD PTR TO DIDAL BLOCK CHA @D32XDRP 23365032
006FD4 12CC                       8455+         LTR   RC,RC               TEST FOR ZERO               @D32XDRP 23368032
006FD6 4780 943A      06FAA       8456+         BZ    GETCCW0A            BRANCH IF NO DIDAL BLOCKS A @D32XDRP 23371032
006FDA 9046 F01C            0001C 8457+         STM   R4,R6,DYNAREA1      SAVE REGISTERS              @D32XDRP 23374032
006FDE 184C                       8458+         LR    R4,RC               PARAMETER FOR RELBLOCK      @D32XDRP 23377032
006FE0 4530 9B36            076A6 8459+         BAL   R3,RELBLOCK         RELEASE BLOCKS              @D32XDRP 23380032
006FE4 9846 F01C            0001C 8460+         LM    R4,R6,DYNAREA1      RESTORE REGISTERS           @D32XDRP 23383032
006FE8 47F0 943A      06FAA       8461+         B     GETCCW0A            CONTINUE WITH REG. CCW-TRAN @D32XDRP 23386032
006FEC 9180 F000      00000       8462+GETCCW1  TM    TCBFLAG,TCBDC .     ARLREADY IN DATA CHAIN.     @DM02853 23400028
006FF0 4782 0004      00004       8463+         BZ    D4(R2)              NO,RETURN TO CCWTRANS       @DM02853 23410028
006FF4 4122 0004            00004 8464+GETCCW2  LA    R2,D4(R2) .         SET RETURN ADDRESS TO NOTIC EXIT      23450028
006FF8 9180 F000      00000       8465+         TM    TCBFLAG,TCBDC .     ARE WE ALREADY IN DATA CHAINING?      23500028
006FFC 4710 9498      07008       8466+         BO    GETCCW3 .           YES,DON'T TEST CCW-CODE               23550028
007000 4530 94BC            0702C 8467+         BAL   R3,SETFLAG .        TEST CCW-CODE AND SET TCB FLAGS       23600028

                                  8469+*        THE SETFLAG ROUTINE WILL RETURN TO THIS POINT, IF THE COPIED  23700028
                                  8470+*        CCW IS A CCW WITH A DATA ADDRESS.                             23750028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   8471+*        IT RETURNS WITH THE RETURN ADDRESS FROM R2 IF NOT.             23800028

007004 9680 F000      00000        8473+         OI    TCBFLAG,TCBDC .     SET DATA CHAINING BIT IN TCB FLAGS   23860028
                                   8474+*                                  IF NO DATA CHAINING IS SPECIFIED,    23870028
                                   8475+*                                  GETCCW WILL RESET THIS BIT LATER     23880028
007008 4530 9554           070C4   8476+GETCCW3  BAL   R3,TESTIDAL .       TRANSLATE DATA ADDRESS OR BUILD IDAL 23900028
00700C 9180 5004      00004        8477+         TM    CCWCHAIN,DC .       DATA CHAINING SPECIFIED?             23950028
007010 0712                        8478+         BCR   O,R2 .              YES,RETURN TO CCWTRANS               24000028
007012 9140 5004      00004        8479+         TM    CCWCHAIN,CC .       COMMAND CHAINING SPECIFIED?          24050028
007016 4780 94B6      07026        8480+         BZ    GETCCW4 .           NO                                   24100028
00701A 9110 F000      00000        8481+         TM    TCBFLAG,TCBSM1 .    WAS IT A STATUS MODIFIER COMMAND?    24150028
00701E 4780 94B6      07026        8482+         BZ    GETCCW4 .           NO                                   24200028
007022 9608 F000      00000        8483+         OI    TCBFLAG,TCBSM2 .    SET STAT.MOD.INDICATOR FOR CCWTRANS  24250028
007026 940F F000      00000        8484+GETCCW4  NI    TCBFLAG,X'0F' .     RESET OTHER TCB FLAG BITS            24300028
00702A 07F2                        8485+         BR    R2 .                RETURN TO CCWTRANS                   24350028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8487+*        PARAMETER: REG 5 POINTS TO A COPIED CCW                          25300028
                                  8488+*                   REG F POINTS TO CCWTCB                                25350028
                                  8489+*                   REG 3 RETURN ADDRESS IF CCW WITH DATA ADDRESS         25400028
                                  8490+*                   REG 2 RETURN IF CCW WITHOUT DATA ADDRESS              25450028
                                  8491+*        FUNCTION:  IT WILL SET TEMPORARLY THE BITS IN THE FLAG BYTE      25500028
                                  8492+*                   OF THE CCWTCB.                                        25550028
                                  8493+*                                                                         25600028
                                  8494+*        SETFLAG WILL BE CALLED FROM   GETCCW                             25650028
                                  8495+*        AND WILL CALL                 DISPLRTN                           25700028
                                  8496+*        REGISTER USAGE  R2,R3,R5,R8,R9,RA,RC,RE,RF                       25750028


                           0702C  8498+SETFLAG  EQU   *                                          @DM02853 25850028
00702C 1BCC                       8499+         SR    RC,RC .             CLEAR REGISTER                     25950028
00702E 9101 5000      00000       8500+         TM    CCWCODE,WRITE .     WRITE (OR CONTROL) COMMAND?        26000028
007032 4780 951A      0708A       8501+         BZ    SETFLAG2 .          NO,READ OR SENSE COMMAND           26050028
007036 9103 5000      00000       8502+         TM    CCWCODE,CONTROL .   CONTROL COMMAND?                   26100028
00703A 47E0 94F8      07068       8503+         BNO   SETFLAG1 .          NO,WRITE COMMAND                   26150028
00703E 5880 F008            00008 8504+         L     R8,DEVCDPTR .       LOAD/TEST                @DF00882 26300028
007042 1288                       8505+         LTR   R8,R8 .            PTR TO CONTROL CMD LIST     @DF00882 26310028
007044 4780 94EC      0705C       8506+         BZ    SETFLAGA .          NO CONTROL COMMANDS WITH DATA  Z0767 26350028
007048 43C0 5000            00000 8507+         IC    RC,CCWCODE .        INSERT CCW-CODE                    26400028
00704C 88C0 0002            00002 8508+         SRL   RC,D2 .             SHIFT OUT TWO BITS                 26425028
007050 45A0 9536            070A6 8509+         BAL   RA,DISPLRTN .       GET BYTE AND BIT DISPLACEMENTS     26450028
007054 44C0 954C            070BC 8510+         EX    RC,DISPLTM .        CONTROL COMMAND WITH DATA?         26500028
007058 4710 94F2      07062       8511+         BO    SETFLAG0 .          YES, TEST FURTHER                  26520028
00705C BE57 5001            00001 8512+SETFLAGA STCM  R5,M7,CCWBUF+D1 .  NO, STORE A CORRECT REAL ADDR  Z0767 26540028
007060 07F2                       8513+         BR    R2 .                RETURN TO CCWTRANS                 26560028
007062 955B 5000      00000       8514+SETFLAG0 CLI   CCWCODE,COMPCOM .   IS IT COMPARE (1285,1287)          26575028
007066 0773                       8515+         BCR   NE,R3                   NO, RETURN TO GETCCW           26645029
                            07068 8516+SETFLAG1 EQU   *                                                    26650028
007068 91C0 5004      00004       8517+         TM    CCWCHAIN,DC+CC .    ANY CHAINING SPECIFIED?            26750028
00706C 0783                       8518+         BCR   Z,R3 .              NO,RETURN TO GETCCW                26800028
00706E 5880 F004            00004 8519+         L     R8,DEVSTPTR .       LOAD/TEST                @DF00882 27050028
007072 1288                       8520+         LTR   R8,R8 .            PTR TO STATMOD CMD LST      @DF00882 27060028
007074 0783                       8521+         BCR   Z,R3 .              NO STATMOD LIST,RETURN TO GETCCW    27100028
007076 43C0 5000            00000 8522+         IC    RC,CCWCODE .        INSERT CCW-CODE                    27150028
00707A 45A0 9536            070A6 8523+         BAL   RA,DISPLRTN .       GET BYTE AND BIT DISPLACEMENTS     27200028
00707E 44C0 954C            070BC 8524+         EX    RC,DISPLTM .        STATUS MODIFIER COMMAND?           27250028
007082 0783                       8525+         BCR   Z,R3 .              NO,RETURN TO GETCCW                27300028
007084 9610 F000      00000       8526+         OI    TCBFLAG,TCBSM1 .    SET 1ST STAT.MOD. TCB FLAG BIT     27350028
007088 07F3                       8527+         BR    R3 .                RETURN TO GETCCW                   27400028
00708A 9102 5000      00000       8528+SETFLAG2 TM    CCWCODE,RDCOM .     READ COMMAND?                      27450028
00708E 4710 952E      0709E       8529+         BO    SETFLAG3 .          YES                                27500028
007092 910C 5000      00000       8530+         TM    CCWCODE,READB .     READ BACKWARD COMMAND?             27550028
007096 47E0 952E      0709E       8531+         BNO   SETFLAG3 .          NO,SENSE COMMAND                   27600028
00709A 9620 F000      00000       8532+         OI    TCBFLAG,TCBRDB .    SET READ BACKWARD FLAG BIT         27650028
00709E 9640 F000      00000       8533+SETFLAG3 OI    TCBFLAG,TCBRDS .    SET READ/SENSE FLAG BIT            27700028
0070A2 47F0 94F8      07068       8534+         B     SETFLAG1 .          CHECK STATUS MODIFIER    @DA00154 27750030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8536+*        PARAMETER: REG 8 POINTS TO A BIT FIELD                          28100028
                                  8537+*                   REG C CONTAINS THE NUMBER OF A BIT IN THIS FIELD     28150028
                                  8538+*                   REG A RETURN ADDRESS                                 28200028
                                  8539+*        RESULT PARAMETER AFTER RETURN:                                  28250028
                                  8540+*                   REG 8 POINT TO THE BYTE WHICH CONTAINS THE BIT       28300028
                                  8541+*                   REG C CONTAINS A BIT IN THE CORRESPONDING POSITION   28350028
                                  8542+*        FUNCTION: IT WILL CALCULATE FROM A BIT NUMBER THE               28400028
                                  8543+*        BYTE AND BIT ADDRESS IN A BIT FIELD.                            28450028
                                  8544+*                                                                        28500028
                                  8545+*        REGISTER USAGE  R8,RA,RC,RD                                     28550028


0070A6 18DC                       8547+DISPLRTN LR    RD,RC .                                        @DF00882 28610028
0070A8 54D0 B540            080B0 8548+         N     RD,DISPLC1 .       GET BIT OFFSET IN RD        @DF00882 28620028
0070AC 88C0 0003            00003 8549+         SRL   RC,L3 .             CALCULATE BIT OFFSET IN RD @DF00882 28700028
0070B0 1A8C                       8550+         AR    R8,RC .             POINT TO TRUE BYTE IN BIT FIELD      28750028
0070B2 41C0 0080            00080 8551+         LA    RC,MSKBIT .         LOAD MASK BIT IN RC                  28800028
0070B6 88C0 D000            00000 8552+         SRL   RC,D0(RD) .         SHIFT MASK BIT BY BIT OFFSET         28850028
0070BA 07FA                       8553+         BR    RA .                RETURN TO CALLER                     28900028


0070BC 9100 8000      00000       8555+DISPLTM  TM    D0(R8),ZERO .       WILL BE USED BY EXECUTE INSTR        29000028
0070C0 9600 8000      00000       8556+DISPLOI  OI    D0(R8),ZERO .       WILL BE USED BY EXECUTE INSTR        29050028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8558+*        PARAMETER: REG 5 POINTS TO A COPIED CCW                        29150028
                                  8559+*                   REG F POINTS TO CCWTCB                              29200028
                                  8560+*                   REG 3 CONTAINS RETURN ADDRESS                       29250028
                                  8561+*        FUNCTIONS:                                                     29300028
                                  8562+*        WHEN AN IDAL IS NEEDED, THIS ROUTINE FORMS THE IDAL BUT WITH   29350028
                                  8563+*        VIRTUAL ADDRESSES. IF THE USER HAS SPECIFIED THE IDAL BIT,ONLY 29400028
                                  8564+*        THE USER'S IDAL WILL BE COPIED. IF NO IDAL IS NEEDED THE       29450028
                                  8565+*        DATA ADDRESS WILL BE TRANSLATED.                               29500028
                                  8566+*        TESTIDAL WILL BE CALLED FROM  CCWTRANS,GETCCW                  29550028
                                  8567+*        AND WILL CALL                 FIXAREA,GETBLOCK,ERROR4          29600028
                                  8568+*        REGISTER USAGE  R1,R3,R4,R5,R9,RC,RD,RE,RF                     29650028


0070C4 9140 F000      00000       8570+TESTIDAL TM    TCBFLAG,TCBRDS .    READ/SENSE COMMAND?                    29750028
0070C8 4780 956E      070DE       8571+         BZ    IDAL0 .             NO,DONT TEST SKIP BIT                  29800028
0070CC 9110 5004      00004       8572+         TM    CCWCHAIN,SKIP .     SKIPPING SPECIFIED?                    29850028
0070D0 4780 956E      070DE       8573+         BZ    IDAL0 .             NO,                                    29875028
0070D4 94FB 5004      00004       8574+         NI    CCWCHAIN,X'FF'-IDAL SET IDAL OFF IF PRESENT     @DM01978 29880028
0070D8 BE57 5001            00001 8575+         STCM  R5,M7,CCWBUF+D1 .   STORE A CORRECT REAL ADDR              29900028
0070DC 07F3                       8576+         BR    R3 .                RETURN                                 29925028
0070DE 48C0 5006            00006 8577+IDAL0    LH    RC,CCWLNG .         LOAD COUNT                             29950028
0070E2 12CC                       8578+         LTR   RC,RC .             IS COUNT = ZERO?                       30000028
0070E4 0783                       8579+         BCR   Z,R3 .              YES,RETURN                             30050028
0070E6 4740 9E52      079C2       8580+         BM    ERROR4 .            IF COUNT NOT LESS 32K ERROR            30100028
0070EA 58D0 5000            00000 8581+         L     RD,CCWBUF .         LOAD DATA ADDR .          @DF00882     30150028
0070EE 41DD 0000            00000 8582+         LA    RD,D0(RD) .         CLEAR HIGH ORDER BYTE     @DF00882     30200028
0070F2 9104 5004      00004       8583+         TM    CCWCHAIN,IDAL .     USER IDAL LIST?                        30250028
0070F6 4780 958E      070FE       8584+         BZ    IDAL1 .             NO                                     30300028
0070FA 58DD 0000            00000 8585+         L     RD,D0(RD) .         LOAD 1ST IDAL WORD                     30400028
                            070FE 8586+PCKADR7  EQU   *                   CHECK IF INV IDAW ADDRESS  @DA09738 30420134
0070FE 9120 F000      00000       8587+IDAL1    TM    TCBFLAG,TCBRDB .    READ BACKWARD COMMAND?                 30450028
007102 4780 959A      0710A       8588+         BZ    IDAL2 .             NO                                     30500028
007106 13DD                       8589+         LCR   RD,RD .             INVERT DATA ADDRESS TO                 30550028
007108 06D0                       8590+         BCTR  RD,R0 .             TRUE COMPLEMENT                        30600028
00710A 54D0 B538            080A8 8591+IDAL2    N     RD,IDALC1 .         GET BYTE ADDRESS IN PAGE               30650028
00710E 1ADC                       8592+         AR    RD,RC .             ADD COUNT                              30700028
007110 06D0                       8593+         BCTR  RD,R0 .             -1                                     30750028
007112 88D0 000B            0000B 8594+         SRL   RD,D11 .            CALC.NUMBER OF PAGES-1 USED            30800028
007116 12DD                       8595+         LTR   RD,RD .             ONLY ONE PAGE FOR I/O AREA?            30850028
007118 4770 95B4      07124       8596+         BNZ   IDAL3 .             NO,GOTO IDAL HANDLING                  30900028
00711C 9104 5004      00004       8597+         TM    CCWCHAIN,IDAL .     USER IDAL LIST AVAILABLE?              30950028
007120 4780 96FA      0726A       8598+         BZ    FIXAREA .           NO,TRANSLATE DATA ADDRESS AND FIX      31000028
                                  8599+*                                  FIXAREA RETURNS WITH ADDRESS FROM R3   31050028
                                  8600+*                                  TO THE CALLER OF TESTIDAL              31100028


007124 9034 F01C            0001C 8602+IDAL3    STM   R3,R4,DYNAREA1 .   SAVE REGISTERS                         31200028
007128 58C0 F018            00018 8603+         L     RC,IDALCNT .        LOAD NUMBER OF FREE IDA WORDS          31250028
00712C 5840 1024            00024 8604+         L     R4,CCBICB .         LOAD ADDRESS OF IDAL BLOCK             31300028
007130 41DD 0001            00001 8605+         LA    RD,D1(RD) .         NUMBER OF NEEDED IDA WORDS             31350028
007134 19DC                       8606+         CR    RD,RC .             SUFFICIENT IDA WORDS IN BLOCK?         31400028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007136 47D0 95DC      0714C        8607+          BNH   IDAL4 .              YES                                    31450028
00713A 4530 99CA            0753A  8608+          BAL   R3,GETBLOCK .        GET NEW IDAL BLOCK                     31500028
00713E D203 4044 1024 00044 00024  8609+          MVC   ANB,CCBICB .         ENQUEUE NEW BLOCK                      31550028
007144 5040 1024            00024  8610+          ST    R4,CCBICB .          STORE NEW POINTER                      31600028
007148 41C0 0011            00011  8611+          LA    RC,D17 .             NUMBER OF FREE IDA WORDS               31650028
00714C 183C                        8612+IDAL4     LR    R3,RC .              COPY NUMBER OF FREE IDA WORDS          31700028
00714E 1B3D                        8613+          SR    R3,RD .              DECREASE IDAL COUNTER                  31750028
007150 5030 F018            00018  8614+          ST    R3,IDALCNT .         STORE NEW IDAL COUNTER                 31800028
007154 4140 4044            00044  8615+          LA    R4,ANB .             CALC.POINTER TO 1ST FREE IDA WORD      31850028
007158 1ACC                        8616+          AR    RC,RC .              CALC.NUMBER OF FREE BYTES              31900028
00715A 1ACC                        8617+          AR    RC,RC .              (MULTIPL. BY 4)                        31925028
00715C 1B4C                        8618+          SR    R4,RC .              POINT TO 1ST FREE IDA WORD             31950028
00715E 9104 5004      00004        8619+          TM    CCWCHAIN,IDAL .      USER IDAL?                             32000028
007162 4710 963A      071AA        8620+          BO    IDAL7 .              YES,COPY USER IDAL                     32050028
007166 9200 4000      00000        8621+          MVI   D0(R4),ZERO .        RESET LOGICAL EOB INDICATOR            32100028
00716A D202 4001 5001 00001 00001  8622+          MVC   D1(L3,R4),CCWBUF+D1  SET DATA ADDRESS INTO 1ST IDAW         32150028
007170 BE47 5001            00001  8623+          STCM  R4,M7,CCWBUF+D1 .    INSERT ADDR OF IDAL IN CCW             32200028
007174 9604 5004      00004        8624+          OI    CCWCHAIN,IDAL .      SET IDAL BIT IN CCW                    32250028
007178 5834 0000            00000  8625+          L     R3,D0(R4) .          LOAD 1ST DATA ADDR                     32300028
00717C 5430 B53C            080AC  8626+          N     R3,IDALC2 .          CALC PAGE ADDR                         32350028
007180 41E0 0800            00800  8627+          LA    RE,D2048 .           LOAD INCREMENT(=2K BLOCK)              32400028
007184 9120 F000      00000        8628+          TM    TCBFLAG,TCBRDB .     READ BACKWARD COMMAND                  32450028
007188 4780 9622      07192        8629+          BZ    IDAL5 .              NO                                     32500028
00718C 4133 07FF            007FF  8630+          LA    R3,D2047(R3) .       POINT TO LAST BYTE IN PAGE             32550028
007190 13EE                        8631+          LCR   RE,RE .              LOAD NEGATIVE BLOCK SIZE               32600028
007192 06D0                        8632+IDAL5     BCTR  RD,R0 .              SET LOOP COUNTER                       32650028
007194 4144 0004            00004  8633+IDAL6     LA    R4,D4(R4) .          POINT TO NEXT IDAW LOCATION            32700028
007198 1A3E                        8634+          AR    R3,RE .              CALC NEXT IDAW                         32750028
00719A 5034 0000            00000  8635+          ST    R3,D0(R4) .          STORE IN IDAW LOCATION                 32800028
00719E 46D0 9624            07194  8636+          BCT   RD,IDAL6 .           MORE IDAW                              32850028
0071A2 92FF 4004      00004        8637+          MVI   D4(R4),EOB .         SET LOGICAL END OF BLOCK               32900028
0071A6 47F0 9652      071C2        8638+          B     IDAL8                                                       32950028
0071AA 1ADD                        8639+IDAL7     AR    RD,RD .              CALC NUMBER OF BYTES TO BE MOVED       33000028
0071AC 1ADD                        8640+          AR    RD,RD .              (MULTIPL. BY 4)                        33025028
0071AE 06D0                        8641+          BCTR  RD,R0 .              -1 FOR MVC INSTRUCTION                 33050028
0071B0 5830 5000            00000  8642+          L     R3,CCWBUF .          GET ADDR OF USER IDAL                  33100028
0071B4 44D0 9658            071C8  8643+          EX    RD,IDALMVC .         COPY IDAL                              33150028
                            071B8  8644+PCKADR6    EQU   * .                  ADDR. FOR PROGR. CHECK HANDLER         33200028
0071B8 BE47 5001            00001  8645+          STCM  R4,M7,CCWBUF+D1 .    INSERT NEW ADDR OF IDAL IN CCW         33300028
0071BC 1A4D                        8646+          AR    R4,RD .              POINT TO LAST COPIED BYTE              33350028
0071BE 92FF 4001      00001        8647+          MVI   D1(R4),EOB .         SET LOGICAL END OF BLOCK BEHIND IDAL   33400028
0071C2 9834 F01C            0001C  8648+IDAL8     LM    R3,R4,DYNAREA1 .     RESTORE REGISTERS                      33450028
0071C6 07F3                        8649+          BR    R3 .                 RETURN                                 33500028
                                   8650+*                                                                          33550028
0071C8 D200 4000 3000 00000 00000  8651+IDALMVC   MVC   D0(L1,R4),D0(R3) .  USED BY EXECUTE TO COPY IDAL          33600028
                                   8652+*                                                                          33650028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8654+*        PARAMETER: REG 6 WILL CONTAIN VIRTUAL ADDRESS OF A CCW          34700028
                                  8655+*                   REG 5 REAL ADDRESS OF COPY LOCATION WILL BE STORED   34750028
                                  8656+*                   REG 2 CONTAINS RETURN ADDRESS                        34800028
                                  8657+*        FUNCTION:  CALCULATE FOR A VIRTUAL ADDR.THE TRUE COPY LOCATION  34850028
                                  8658+*                   IN A CCW COPY BLOCK,BLOCK ALIGNEMENT WILL BE CALC.   34900028
                                  8659+*                   THAT THE NEW BLOCK ADJOINS TO AN ALREADY EXISTING    34950028
                                  8660+*                   BLOCK IF POSSIBLE,OR A SHORT BLOCK WILL BE CREATED.  35000028
                                  8661+*                   THE BLOCK END TIC WILL BE MOVED BACKWARDS,THEREFORE  35050028
                                  8662+*                   LESS THEN 7 COPY LOCATIONS ARE AVAILABL.             35100028
                                  8663+*        LOCATE WILL BE CALLED FROM    CCWTRANS                          35150028
                                  8664+*        AND WILL CALL                 GETBLOCK                          35200028
                                  8665+*        REGISTER USAGE  R1,R4,R5,R6,R8,R9,RC,RD,RE                      35250028
                                  8666+*                                                                        35300028
0071CE 4140 1020          00020   8667+LOCATE   LA    R4,CCBACB .          POINT TO DUMMY LOW BLOCK              35350028
0071D2 4B40 B552          080C2   8668+         SH    R4,H68                                                     35400028
0071D6 98CE B548          080B8   8669+         LM    RC,RE,LOCC1 .        LOAD(VBA,BA,VBA) OF DUMMY BLOCKS      35450028
0071DA 47F0 9676    071E6         8670+         B     LOC1                                                       35500028
0071DE 58C0 403C          0003C   8671+LOCATE1  L     RC,VBA .             SAVE VBA OF LOW BLOCK IN RC           35550028
0071E2 98DE B54C          080BC   8672+         LM    RD,RE,LOCC2 .        LOAD BA AND VBA OF DUMMY HIGH BLOCK   35600028
0071E6 BF57 4045          00045   8673+LOC1     ICM   R5,M7,ANB+D1-CCWBLOCK(R4) POINT TO NEXT BLOCK           35650028
                                  8674+*                                     (=HIGH BLOCK)                      35670028
0071EA 4780 9694    07204         8675+         BZ    LOC3 .               NO BLOCK AVAILABLE                    35700028
0071EE 5885 003C          0003C   8676+         L     R8,VBA-CCWBLOCK(R5)  LOAD VBA OF HIGH BLOCK                35750028
0071F2 1968                       8677+         CR    R6,R8 .              V LESS THEN VBA OF HIGH BLOCK?        35800028
0071F4 4740 9690    07200         8678+         BL    LOC2 .               YES                                   35850028
0071F8 1845                       8679+         LR    R4,R5 .              LOAD BLOCK ADDR OF NEW LOW BLOCK      35900028
0071FA 18C8                       8680+         LR    RC,R8 .              SAVE VBA OF NEW LOW BLOCK             35950028
0071FC 47F0 9676    071E6         8681+         B     LOC1 .               TEST AGAIN                            36000028
007200 18D5                       8682+LOC2     LR    RD,R5 .              SAVE BLOCK ADDR OF HIGH BLOCK         36050028
007202 18E8                       8683+         LR    RE,R8 .              SAVE VBA OF HIGH BLOCK                36100028
007204 415C 0038          00038   8684+LOC3     LA    R5,TIC1-CCWBLOCK(RC) COPY LOCATION                         36150028
007208 1965                       8685+         CR    R6,R5 .                 IN BLOCK?                          36200028
00720A 47B0 96A6    07216         8686+         BNL   LOC5 .               NO,CREATE AND ENQUEUE NEW BLOCK       36250028
00720E 1854                       8687+LOC4     LR    R5,R4 .              CALC ADDR OF COPY LOCATION            36300028
007210 1A56                       8688+         AR    R5,R6 .                 IN R5 BY THE FORMULA               36350028
007212 1B5C                       8689+         SR    R5,RC .                    Z=BA+V-VBA                      36400028
007214 07F2                       8690+         BR    R2 .                 RETURN TO CALLER                      36450028
                                  8691+*                                                                        36500028
007216 18A4                       8692+LOC5     LR    RA,R4 .              SAVE BLOCK ADDR OF LOW BL   @D32XDRP 36550032
007218 4530 99CA          0753A   8693+         BAL   R3,GETBLOCK .        GET NEW CCW COPY BLOCK                36600028
00721C BE47 A045          00045   8694+         STCM  R4,M7,ANB+D1-CCWBLOCK(RA) ENQUEUE NEW BL BEHIND @D32XDRP 36650032
007220 50D0 4044          00044   8695+         ST    RD,ANB .                 BLOCK AND BEFORE HIGH BLOCK        36700028
007224 9280 4038    00038         8696+         MVI   TIC1,EOCL .          INITIALIZE NEW COPY BLOCK             36750028
007228 9288 4040    00040         8697+         MVI   TIC2,EOCL+TIC .                                            36800028
00722C 415C 0070          00070   8698+         LA    R5,D112(RC) .        IS ALIGNMENT TO LOW BLOCK POSSIBLE?   36850028
007230 1965                       8699+         CR    R6,R5 .                                                    36900028
007232 47B0 96E4    07254         8700+         BNL   LOC6 .               NO,TEST ALIGNMENT TO HIGH BLOCK       36950028
007236 41CC 0038          00038   8701+         LA    RC,TIC1-CCWBLOCK(RC) CALC VBA OF NEW BLOCK                 37000028
00723A 50C0 403C          0003C   8702+         ST    RC,VBA .             AND STORE IT IN BLOCK                 37050028
00723E 195E                       8703+         CR    R5,RE .              IS NEW BLOCK A SHORT BLOCK?           37100028
007240 47D0 969E    0720E         8704+         BNH   LOC4 .               NO,CALC ADDR OF COPY LOCATION         37150028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007244 1BEC                      8705+         SR    RE,RC .             CALC DISPLACEMENT OF ENDTIC LOC      37200028
007246 1AE4                      8706+         AR    RE,R4 .             ADD BLOCK ADDR                       37250028
007248 9280 E000      00000      8707+         MVI   D0(RE),EOCL .       INITIALIZE SHORT BLOCK               37300028
00724C 9288 E008      00008      8708+         MVI   D8(RE),EOCL+TIC                                          37350028
007250 47F0 969E      0720E      8709+         B     LOC4 .              CALC ADDR OF COPY LOCATION           37400028
007254 18CE                      8710+LOC6     LR    RC,RE .             IS ALIGNMENT TO HIGH BLOCK POSSIBLE  37450028
007256 4AC0 B54A            080BA 8711+         AH    RC,LOCC1+D2                                            37500028
00725A 196C                      8712+         CR    R6,RC                                                  37550028
00725C 47B0 96F2      07262      8713+         BNL   LOC7 .              YES,NEW VBA IS ALREADY IN RC         37600028
007260 18C6                      8714+         LR    RC,R6 .             SET NEW VBA = V                      37650028
007262 50C0 403C            0003C 8715+LOC7     ST    RC,VBA .            STORE VBA IN BLOCK                   37700028
007266 47F0 969E      0720E      8716+         B     LOC4 .              CALC ADDR OF COPY LOCATION           37750028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8718+*        PARAMETER: REG 5 POINTS TO A FULLWORD. THE LAST THREE BYTES    39500028
                                  8719+*                      CONTAIN A VIRTUAL ADDRESS.                       39550028
                                  8720+*                   REG F POINTS TO CCWTCB                              39600028
                                  8721+*                   REG 3 RETURN ADDRESS                                39650028
                                  8722+*        FUNCTION:  IT WILL FIX THE REAL PAGE FRAME CORRESPONDING TO    39700028
                                  8723+*                   THE VIRTUAL ADDR.AND THEN REPLACE VIRTUAL BY REAL   39750028
                                  8724+*                   ADDR.TEMPORARY FIXING WILL BE DONE BY TFIX ROUTINE  39800028
                                  8725+*        FIXAREA WILL BE CALLED FROM   CCWTRANS,TESTIDAL                  39850028
                                  8726+*        AND WILL CALL                 TFIX,DISPLRTN                      39900028
                                  8727+*        REGISTER USAGE  R2,R3,R4,R6,R7,R8,R9,RA,RB,RC,RE,RF              39950028
                                  8728+*                                                                         40000028
00726A 5880 5000          00000   8729+FIXAREA  L     R8,CCWBUF .          LOAD VIRTUAL ADDRESS        @DF00882 40050028
00726E 4188 0000          00000   8730+          LA    R8,D0(R8) .          CLEAR HIGH ORDER BYTE       @DF00882 40100028
007272 5070 F02C          0002C   8731+          ST    R7,DYNAREA3          SAVE TIC ADDRESS            @DA10400 40150034
007276 B178 0000          00000   8732+          LRA   R7,D0(R8) .          LOAD REAL ADDRESS                    40200028
00727A 4720 9820    07390         8733+          BH    FIX2 .               BRANCH IF PAGE NOT IN MEMORY@DM01788 40250028
00727E 4770 987C    073EC         8734+          BNZ   ERROR0 .             BRANCH IF INVALID REFERENCE          40300028
007282 5970 07E4          007E4   8735+          C     R7,EOCADDR           ADDR BELONGS TO REAL CORE?  @DM11453 40350031
007286 4720 987C    073EC         8736+          BH    ERROR0 .             NO                                   40400028
00728A 1978                       8737+          CR    R7,R8 .              VIRTUAL=REAL?                        40450028
00728C 4780 9814    07384         8738+          BE    FIX3A .              YES,DON'T FIX                PREWAV1 40550028
007290 9140 1006    00006         8739+          TM    CCBCLS,BTAM .        BTAM BIT IN CCB ON?                  40700028
007294 4710 9810    07380         8740+          BO    FIX3 .               YES,SKIP DON'T FIX AND WAIT          40750028
007298 45A0 9828          07398   8741+          BAL   RA,FIX4 .            CALC DISPLACEMENTS FOR FIXINF        40850028
00729C 44C0 954C          070BC   8742+          EX    RC,DISPLTM .         IS PAGE ALREADY FIXED                40900028
0072A0 4780 9744    072B4         8743+          BZ    FIX0                 NO, BRANCH                  @D32XDRP 40907032
0072A4 9101 F000    00000         8744+          TM    TCBFLAG,RFLAG        IS REPLICA TO BE CREATED?   @D32XDRP 40914032
0072A8 4780 9810    07380         8745+          BZ    FIX3                 NO, BRANCH                  @D32XDRP 40921032
0072AC BF58 B537          080A7   8746+          ICM   R5,M8,HEX80          SET BIT IN DIDAL-PG ALR.FIX @D32XDRP 40928032
0072B0 47F0 979C    0730C         8747+          B     FIX1B                                            @D32XDRP 40935032
                          072B4   8748+FIX0      EQU   *                                                @D32XDRP 40942032
0072B4 D502 5001 07ED 00001 007ED   8749+          CLC   CCWBUF+1(L3),ASVA+1 ADDRESS IN THE SVA ?       @DM06083 40952029
0072BA 47B0 9760    072D0         8750+          BNL   FIX1A              YES, DONT CHECK STORAGE KEY  @DM06083 40954029
0072BE 4370 067F          0067F   8751+          IC    R7,PIK+1 .         CLEAR 4 LOW ORDER BITS       @DM01788 40960029
0072C2 0977                       8752+          ISK   R7,R7 .            GET STORAGE KEY              @DM01788 40970028
0072C4 5470 B544          080B4   8753+FIX1      N     R7,FIXC1 .         INTO REGISTER 7              @DM01788 40980028
0072C8 4970 067E          0067E   8754+          CH    R7,PIK .           MATCHING KEY                 @DM01788 40990028
0072CC 4770 987C    073EC         8755+          BNE   ERROR0 .           NO,INVALID ADDRESS           @DM02853 41000028
0072D0 1882                       8756+FIX1A     LR    R8,R2 .            SAVE RETURN REG. FROM GETCCW @DM06083 41050029
0072D2 9640 101A    0001A         8757+          OI    CCBFLAG,TTFIX      SET FLAG FOR AT LEAST        @DA01239 41105031
                                  8758+*                                  PAGE FIXED                   @DA01239 41107531
0072D6 58E0 0778          00778   8759+          L     RE,APMGR .          LOAD BASE FOR TFIX                   41150028
0072DA 58A0 F068          00068   8760+          L     RA,SAVEREGA .       RA POINTS TO PIB                     41200028
0072DE 5820 5000          00000   8761+          L     R2,CCWBUF          LOAD ADDRESS TO BE FIXED     @DA10400 41250034
0072E2 4122 0000          00000   8762+          LA    R2,D0(R2)          CLEAR HIGH ORDER BYTE        @DA10400 41280034
0072E6 5020 F030          00030   8763+          ST    R2,FIXADDR         TFIX INFO FOR RESTART        @DA10400 41310034
0072EA 45CE 07A6          007A6   8764+          BAL   RC,TFIX-PMGRADR(RE) FIX PAGE                           41350028
0072EE 1828                       8765+          LR    R2,R8 .             RELOAD REGISTER                      41450028
0072F0 5880 F030          00030   8766+          L     R8,FIXADDR .        LOAD VIRTUAL ADDRESS                 41500028
0072F4 B178 0000          00000   8767+          LRA   R7,D0(R8) .         LOAD REAL ADDRESS                    41550028
0072F8 45A0 9828          07398   8768+          BAL   RA,FIX4 .           CALC DISPLACEMENTS FOR FIXINF        41600028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0072FC 44C0 9550            070C0  8769+         EX    RC,DISPLOI .        SET BIT IN FIXINF-PAGE IS NOW FIXED- 41650028
007300 9101 F000      00000        8770+         TM    TCBFLAG,RFLAG       IS REPLICA TO BE CREATED?   @D32XDRP 41653032
007304 4780 9810      07380        8771+         BZ    FIX3                NO,BRANCH                   @D32XDRP 41654032
007308 BF58 B536            080A6  8772+         ICM   R5,M8,HEX01         SET BIT IN DIDAL-PG IS FIXE @D32XDRP 41655032
00730C 58C0 F040            00040  8773+FIX1B    L     RC,DIDAWAD          LOAD DIDA DWORD PTR         @D32XDRP 41656032
007310 48A0 F03E            0003E  8774+         LH    RA,DIDALCNT         LOAD NUMB OF FREE DIDA DWRD @D32XDRP 41657032
007314 9034 F01C            0001C  8775+         STM   R3,R4,DYNAREA1      SAVE REGISTERS              @DA10463 41657534
007318 46A0 97EE            0735E  8776+         BCT   RA,FIX8             DECREMENT,STILL POSITIVE.BR @D32XDRP 41658032
00731C 41A0 0008            00008  8777+         LA    RA,D8               RENEW NUM OF FREE DIDA DWRD @D32XDRP 41659032
007320 9280 F038      00038        8778+         MVI   DDALBLAD,EOCL       MARK GETBLOCK FOR DIDAL     @DA10463 41660034
007324 4530 99CA            0753A  8779+         BAL   R3,GETBLOCK         GET NEW DIDAL BLOCK         @D32XDRP 41661032
007328 9101 F000      00000        8780+         TM    TCBFLAG,RFLAG       STILL FAST TRANSLATABLE     @DA10463 41661334
00732C 4780 980C      0737C        8781+         BZ    FIX8A               NO, NO BLOCK GIVEN          @DA10463 41661634
007330 BF37 F039            00039  8782+         ICM   R3,M7,DDALBLAD+D1   LOAD PTR TO CURR DIDAL BLK  @DA10463 41662034
007334 4770 97D0      07340        8783+         BNZ   FIX9                BRANCH IF CURRENT BLOCK     @D32XDRP 41664032
007338 5040 F034            00034  8784+         ST    R4,TCBDCB           STORE PTR TO 1ST DIDAL BLK  @D32XDRP 41665032
00733C 47F0 97DC      0734C        8785+         B     FIX9A                                           @D32XDRP 41666032
                            00000  8786+         USING DIDADW,RC           ESTABLISH ADDRESSABILITY    @D32XDRP 41667032
007340 5040 C000            00000  8787+FIX9     ST    R4,DIDA1            CHAIN                       @D32XDRP 41668032
007344 9280 C000      00000        8788+         MVI   DIDA1,EOCL          DIDAL AND                   @D32XDRP 41669032
007348 5040 C004            00004  8789+         ST    R4,DIDA2            DIDAL BLOCK                 @D32XDRP 41670032
00734C 5040 F038            00038  8790+FIX9A    ST    R4,DDALBLAD         STORE NEW CUR DIDAL BL.ADDR @D32XDRP 41671032
007350 18C4                        8791+         LR    RC,R4               SET DIDA DWORD POINTER      @D32XDRP 41672032
007352 4840 F03C            0003C  8792+         LH    R4,DDLBLCNT         INCREMENT                   @D32XDRP 41673032
007356 4144 0001            00001  8793+         LA    R4,D1(R4)           NUMBER OF                   @D32XDRP 41674032
00735A 4040 F03C            0003C  8794+         STH   R4,DDLBLCNT         DIDA1 BLOCKS                @D32XDRP 41675032
00735E D203 C000 5000 00000 00000  8795+FIX8     MVC   DIDA1,CCWBUF        STORE                       @DA10400 41676134
007364 9200 C000      00000        8796+         MVI   DIDA1,ZERO          ...                         @DA10400 41676234
007368 5050 C004            00004  8797+         ST    R5,DIDA2            DIDAL ENTRY                 @D32XDRP 41676334
00736C 41CC 0008            00008  8798+         LA    RC,D8(RC)           UPDATE DIDA DWORD POINTER   @D32XDRP 41676434
007370 50C0 F040            00040  8799+         ST    RC,DIDAWAD          STORE NEW VALUE             @D32XDRP 41676534
007374 40A0 F03E            0003E  8800+         STH   RA,DIDALCNT         STORE NEW NUM OF FREE DIDA  @D32XDRP 41676634
                                   8801+*                                  DWORDS                      @D32XDRP 41676734
007378 92FF C000      00000        8802+         MVI   DIDA1,EOB                                       @D32XDRP 41676834
                                   8803+         DROP  RC                                              @D32XDRP 41676934
00737C 9834 F01C            0001C  8804+FIX8A     LM    R3,R4,DYNAREA1      RESTORE REGISTERS           @DA10463 41677034
007380 BE77 5001            00001  8805+FIX3     STCM  R7,M7,CCWBUF+D1 .   REPLACE VIRTUAL ADDR BY REAL ADDR    41697134
007384 D703 F030 F030 00030 00030  8806+FIX3A    XC    FIXADDR,FIXADDR     FIXINF IS CORRECT           @DA10346 41706134
00738A 5870 F02C            0002C  8807+         L     R7,DYNAREA3         RELOAD TIC ADDRESS          @DA10346 41717034
00738E 07F3                        8808+         BR    R3 .                RETURN TO CCWTRANS                   41757032
007390 4877 0000            00000  8809+FIX2     LH    R7,D0(R7) .        LOAD PAGETABLE ENTRY OF PAGE @DM01788 41810028
007394 47F0 9754      072C4        8810+         B     FIX1 .             TEST KEY                     @DM01788 41820028
007398 4180 1028            00028  8811+FIX4     LA    R8,CCBXINF .        LOAD ADDR OF FIXINF                  41850028
00739C 18C7                        8812+         LR    RC,R7 .             LOAD REAL ADDR                       41900028
00739E 88C0 000B            0000B  8813+         SRL   RC,D11 .            CALC REAL PAGE NUMBER                41950028
0073A2 49C0 B554            080C4  8814+         CH    RC,H192 .           MORE THAN 384K(=192 PAGES) OF MEMORY 42200028
0073A6 4740 9536      070A6        8815+         BL    DISPLRTN .          NO,CALC BYTE AND BIT OFFSETS         42250028
0073AA 4BC0 B554            080C4  8816+         SH    RC,H192 .           SUBTRACT 192                         42300028
0073AE 9034 F01C            0001C  8817+         STM   R3,R4,DYNAREA1      SAVE REGISTERS              @D32XDRP 42350032
0073B2 BF8F 1040            00040  8818+         ICM   R8,M15,CCBXPTR .    GET ADDR OF NEXT FIXINF BLOCK        42450028
0073B6 4770 9854      073C4        8819+         BNZ   FIX6 .              FIXINF EXTENSION AVAILABLE?          42500028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0073BA 4530 99CA            0753A  8820+         BAL   R3,GETBLOCK .       NO,GET NEW BLOCK FOR FIXINF EXT.     42550028
0073BE 5040 1040            00040  8821+         ST    R4,CCBXPTR .        STORE POINTER                        42600028
0073C2 1884                        8822+FIX5     LR    R8,R4 .             LOAD ADDRESS OF FIXINF EXTENSION     42650028
0073C4 49C0 B550            080C0  8823+FIX6     CH    RC,H544 .           MORE THAN NEXT 1088K BYTES           42700028
0073C8 4740 9874      073E4        8824+         BL    FIX7 .              NO,CALC BYTE AND BIT OFFSETS         42750028
0073CC 4BC0 B550            080C0  8825+         SH    RC,H544 .           SUBTRACT 544 = 68*8                  42800028
0073D0 BF4F 8044            00044  8826+         ICM   R4,M15,ANB-CCWBLOCK(R8) POINT TO NEXT FIXINF BLOCK    42850028
0073D4 4770 9852      073C2        8827+         BNZ   FIX5 .              NEXT FIXINF EXT.BLOCK AVAILABLE?     42900028
0073D8 4530 99CA            0753A  8828+         BAL   R3,GETBLOCK .       NO,GET NEW BLOCK FOR FIXINF EXT.     42950028
0073DC 5048 0044            00044  8829+         ST    R4,ANB-CCWBLOCK(R8) STORE NEW POINTER                    43000028
0073E0 47F0 9852      073C2        8830+         B     FIX5                                                     43050028
0073E4 9834 F01C            0001C  8831+FIX7     LM    R3,R4,DYNAREA1                              @D32XDRP 43100032
0073E8 47F0 9536      070A6        8832+         B     DISPLRTN                                                 43200028
                                   8833+*        IF I/O AREA EXTENDS INTO NEXT PARTITION,AN INVALID   @DA09768 43225034
                                   8834+*        ADDRESS (EOVSADR+1) IS INSERTED IN ORDER TO FORCE    @DA09768 43251234
                                   8835+*        A CHANNEL PROGRAM CHECK IF REALLY USED.              @DA09768 43251634
0073EC 5870 0680            00680  8836+ERROR0   L     R7,EOVSADR             INSERT AN             @DA09768 43252034
0073F0 4177 0001            00001  8837+         LA    R7,D1(R7)              INVALID ADDRESS       @DA09768 43255034
0073F4 BE77 5001            00001  8838+         STCM R7,M7,CCWBUF+D1       IN THE IDAW           @DA09768 43257034
0073F8 47F0 9814      07384        8839+         B     FIX3A                                        @DM02853 43262028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8841+************************************************************ @D32XDRP 43300332
                                  8842+*                                                              @D32XDRP 43300632
                                  8843+*      UNFIX ROUTINE                                           @D32XDRP 43301032
                                  8844+*                                                              @D32XDRP 43301232
                                  8845+************************************************************ @D32XDRP 43301432
                                  8846+*                                                              @D32XDRP 43301632
                                  8847+*    FUNCTION:                                                 @D32XDRP 43302032
                                  8848+*        FIXED DATA ARE PAGES, IF ANY, ARE FREED.              @D32XDRP 43312032
                                  8849+*        IF FASTTR AND SAVEDQ-BIT IN CCBFLAG IS OFF, THEN THE  @DM12800 43322032
                                  8850+*        FIXINF BITSTRING IS USED AND THE BITS ARE RESET.      @D32XDRP 43332032
                                  8851+*        OTHERWISE, THE DIDAL ENTRIES ARE SCANNED AND THE      @D32XDRP 43342032
                                  8852+*        SUCCESSIVE PAGES ARE FREED IF THE NOWFXD-BIT IS ON.   @D32XDRP 43352032
                                  8853+*        RIGHT AFTER EACH PAGE-FREEING THE NOWFXD-BIT IN THE   @D32XDRP 43362032
                                  8854+*        CORRESPONDING DIDAL-ENTRY IS RESET.                   @D32XDRP 43372032
                                  8855+*        FINALLY THE FXREQD-BIT IN THE CCBFLAG IS TURNED ON.   @D32XDRP 43382032
                                  8856+*    ENTRY POINTS:                                             @D32XDRP 43392032
                                  8857+*        UNFIX  -FROM CSWTRANS,DEFIX,DELREPL,DEFIXALL,DEFIXCON @D32XDRP 43402032
                                  8858+*    INPUT:                                                    @D32XDRP 43412032
                                  8859+*        R1 - POINTS TO COPIED CCB                             @D32XDRP 43422032
                                  8860+*        RD - RETURN ADDRESS                                   @D32XDRP 43432032
                                  8861+*        R9 - FIRST BASE ADDRESS                               @D32XDRP 43442032
                                  8862+*        RB - SECOND BASE ADDRESS                              @D32XDRP 43452032
                                  8863+*    OUTPUT:                                                   @D32XDRP 43462032
                                  8864+*        R1 - UNCHANGED                                        @D32XDRP 43472032
                                  8865+*        RD - UNCHANGED                                        @D32XDRP 43482032
                                  8866+*        R9 - UNCHANGED                                        @D32XDRP 43492032
                                  8867+*        RB - UNCHANGED                                        @D32XDRP 43502032
                                  8868+*    EXTERNAL REFERENCES:                                      @D32XDRP 43512032
                                  8869+*        TFREE   - ROUTINE TO FREE A PAGE                      @D32XDRP 43522032
                                  8870+*    EXITS NORMAL:                                             @D32XDRP 43532032
                                  8871+*        RETURN ADDRESS IN RD                                  @D32XDRP 43542032
                                  8872+*    EXITS ERROR:                                              @D32XDRP 43552032
                                  8873+*        NONE                                                  @D32XDRP 43562032
                                  8874+*    SUBROUTINES:                                              @D32XDRP 43572032
                                  8875+*        FREED  (IF FASTTR-BIT OFF)                            @D32XDRP 43582032
                                  8876+*    REGISTERS CHANGED:                                        @D32XDRP 43592032
                                  8877+*    A. FASTTR AND SAVEDQ-BIT 0- R2,R3,R4,R5,R6,R7,R8,RC,RE    @DM12800 43602032
                                  8878+*    B. FASTTR OR  SAVEDQ-BIT 1- R3,R4,R5,RC,RE                @DM12800 43612032
                                  8879+*                                                              @D32XDRP 43622032
                                  8880+************************************************************ @D32XDRP 43632032
                        073FC     8881+UNFIX    EQU   *                                                      43650028
0073FC 9142 101A        0001A     8882+         TM    CCBFLAG,TTFIX+FXREQD ARE THERE ANY PAGES TO BE @D32XDRP 43700032
                                  8883+*                             FREED?                          @D32XDRP 43710032
007400 07BD                       8884+         BCR   NM,RD                NO, RETURN                 @D32XDRP 43720032
007402 4830 08F0          008F0   8885+         LH    R3,CNTCOM .          DECREASE NUMBER                   43900028
007406 0630                       8886+         BCTR  R3,R0 .              OF COMPLETED TRANSLATIONS         43950028
007408 4030 08F0          008F0   8887+         STH   R3,CNTCOM .          WITH PAGES FIXED                  44000028
                          0740C   8888+UNFIX0   EQU   *                                                      44050028
00740C 910C 101A        0001A     8889+         TM    CCBFLAG,FASTTR+SAVEDQ   FAST-TRANS?             @D32XDRP 44060032
007410 4770 98E6        07456     8890+         BNZ   UNFIX3               DO IT THE FAST-WAY         @D32XDRP 44080032
007414 1881                       8891+         LR    R8,R1 .              SAVE R1                           44100028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00000  8892+         USING CCBADR,R8                                                  44150028
007416 4140 8028          00028  8893+         LA    R4,CCBXINF .          LOAD ADDR OF FIXINF FIELD            44200028
00741A 4150 803F          0003F  8894+         LA    R5,CCBXINF+D23 .      LOAD ADDR OF LAST BYTE OF FIXINF     44250028
00741E 1B66                      8895+         SR    R6,R6 .               NO BYTE DISPL FOR FIXINF REQUIRED    44300028
007420 4570 9928          07498  8896+         BAL   R7,FREE0 .            RESET BITS IN FIXINF                 44350028
007424 4160 0018          00018  8897+         LA    R6,D24 .              SET NEW BYTE DISPLACEMENT            44450028
007428 BF4F 8040          00040  8898+         ICM   R4,M15,CCBXPTR .      GET FIXINF EXTENSION IF AVAILABLE    44500028
00742C 4780 98E2    07452        8899+         BZ    UNFIX2 .              NO EXTENSION,RETURN TO CALLER        44550028
007430 4154 0043          00043  8900+UNFIX1   LA    R5,ANB-D1-CCWBLOCK(R4) LOAD ADDR OF LAST BYTE IN FIXINF    44600028
007434 4570 9928          07498  8901+         BAL   R7,FREE0 .            RESET BITS IN FIXINF                 44650028
007438 4166 0044          00044  8902+         LA    R6,ANB-CCWBLOCK(R6)   INCREASE BYTE DISPL                  44700028
00743C BF4F 4044          00044  8903+         ICM   R4,M15,ANB-CCWBLOCK(R4) GET ADDR OF FURTHER EXTENSION      44750028
007440 4770 98C0    07430        8904+         BNZ   UNFIX1 .              BRANCH IF EXTENSION AVAILABLE        44800028
007444 5840 8040          00040  8905+         L     R4,CCBXPTR .          LOAD ADDR OF BLOCK QUEUE FOR EXT     44900028
007448 4530 9B36          076A6  8906+         BAL   R3,RELBLOCK .         RELEASE BLOCKS                       45000028
00744C D703 8040 8040 00040 00040 8907+         XC    CCBXPTR,CCBXPTR       CLEAR BECAUSE OF 2ND TIME   @DZ15896 45050034
                                 8908+         DROP  R8                                                       45150028
007452 1818                      8909+UNFIX2   LR    R1,R8 .               RESTORE REG 1                        45200028
                          00000  8910+         USING CCBADR,R1                                                  45250028
007454 07FD                      8911+         BR    RD .                  RETURN TO CALLER            @D32XDRP 45300032
007456 9602 101A    0001A        8912+UNFIX3   OI    CCBFLAG,FXREQD        TURN ON FIXING-REQUIRED BIT @D32XDRP 45302032
00745A 58E0 0778          00778  8913+         L     RE,APMGR              LOAD EASE FOR TFREE         @D32XDRP 45304032
00745E 5840 103C          0003C  8914+         L     R4,CCBRCB             ACCESS REPLICA              @D32XDRP 45306032
                          00000  8915+         USING REPLICA,R4            ESTABLISH ADDRESSABILITY    @D32XDRP 45308032
007462 5840 4010          00010  8916+         L     R4,REPDIDAL           LOAD POINTER TO DIDAL       @D32XDRP 45310032
                          00000  8917+         USING DIDADW,R4             ESTABLISH ADDRESSABILITY    @D32XDRP 45312032
007466 91FF 4000    00000        8918+UNFIX4   TM    DIDADW,EOB            END OF DIDAL?               @D32XDRP 45314032
00746A 071D                      8919+         BCR   O,RD                  YES, RETURN                 @D32XDRP 45316032
00746C 4780 9904    07474        8920+         BZ    UNFIX5                CONTINUATION?               @D32XDRP 45318032
007470 5840 4000          00000  8921+         L     R4,DIDA1              YES, POINT TO NEXT DIDA DW  @D32XDRP 45320032
007474 9101 4004    00004        8922+UNFIX5   TM    DIDA2,NOWFXD               FIXED AT THIS MOMENT?  @D32XDRP 45322032
007478 47E0 9920    07490        8923+         BNO   UNFIX6                 NO, DON'T FREE IT AGAIN     @D32XDRP 45324032
00747C 5850 4000          00000  8924+         L     R5,DIDA1              LOAD VIRTUAL ADDRESS        @D32XDRP 45326032
007480 B135 0000          00000  8925+         LRA   R3,D0(R5)             LOAD REAL ADDRESS           @D32XDRP 45328032
007484 8830 000B          0000B  8926+         SRL   R3,D11                R3 = PAGE FRAME NUMBER      @D32XDRP 45330032
007488 45CE 0824          00824  8927+         BAL   RC,TFREE-PMGRADR(RE)  FREE PAGE                   @D32XDRP 45332032
00748C 94FE 4004    00004        8928+         NI    DIDA2,XFF-NOWFXD      TURN OFF FIXED-BIT IN DIDAL @D32XDRP 45334032
007490 4144 0008          00008  8929+UNFIX6   LA    R4,D8(R4)             POINT TO NEXT DIDA DWORD    @D32XDRP 45336032
007494 47F0 98F6    07466        8930+         B     UNFIX4                LOOP THRU WHOLE DIDAL       @D32XDRP 45338032
                          00000  8931+         USING CCWBLOCK,R4           RE-ESTABLISH STANDARD       @D32XDRP 45340032
                                 8932+*                                    ADDRESSABILITY              @D32XDRP 45342032
                                 8933+*                                                                         45350028
                                 8934+*   RESET BITS IN FIXINF                                                  45400028
                                 8935+*                                                                         45450028
007498 1814                      8936+FREE0    LR    R1,R4 .               LOAD STARTADDR OF FIXINF             45500028
00749A 58E0 0778          00778  8937+         L     RE,APMGR .            LOAD BASE FOR TFREE                  45525028
00749E 1B22                      8938+         SR    R2,R2 .               CLEAR FUNCTION BYTE REG FOR TRT      45550028
0074A0 1835                      8939+FREE1    LR    R3,R5 .               GET ADDR OF LAST BYTE IN FIXINF      45600028
0074A2 1B31                      8940+         SR    R3,R1 .               CALC LENGTH FOR TRT IN R3            45650028
0074A4 4430 995C          074CC  8941+         EX    R3,FREETRT .          ALL BITS IN FIXINF=0                 45700028
0074A8 0787                      8942+         BCR   Z,R7 .                YES,RETURN                           45750028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0074AA 0620                      8943+         BCTR  R2,R0 .             CALC BIT DISPL FROM TRT IN R2        45800028
0074AC 4130 0080           00080 8944+         LA    R3,MSKBIT .          LOAD MASK BIT                        45850028
0074B0 8830 2000           00000 8945+         SRL   R3,D0(R2) .          SHIFT MASK BIT TO TRUE BIT POS.      45900028
0074B4 4430 9962           074D2 8946+         EX    R3,FREEXI .          RESET FOUND BIT TO  ERO              45950028
0074B8 1831                      8947+         LR    R3,R1 .              LOAD ADDR OF BYTE UNEQ 0             46000028
0074BA 1B34                      8948+         SR    R3,R4 .              SUBTR START ADDR OF FIXINF(=BYTEDIS) 46050028
0074BC 1A36                      8949+         AR    R3,R6 .              ADD BYTE DISPL FOR FIXINF FIELD      46100028
0074BE 8930 0003           00003 8950+         SLL   R3,L3 .              MULTIPLY BY 8                        46150028
0074C2 1A32                      8951+         AR    R3,R2 .              ADD BIT DISPL (R3=REAL PAGE NUMB.)   46200028
                                 8952+*                                   IDENTIFIER IS IN R3                  46300028
0074C4 45CE 0824           00824 8953+         BAL   RC,TFREE-PMGRADR(RE) FREE PAGE                            46400028
0074C8 47F0 9930      074A0      8954+         B     FREE1                                                     46500028
                                 8955+*                                                                       46550028
0074CC DD00 1000 904C 00000 06BBC 8956+FREETRT  TRT   D0(L1,R1),FREETKT                                       46600028
0074D2 9700 1000      00000      8957+FREEXI   XI    D0(R1),ZERO                                               46650028
                                 8958+*                                                                       46700028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   8960+*        PARAMETER: ADDRESS OF CCWTCB WILL BE STORED IN REG F           46800028
                                   8961+*                   REG E CONTAINS RETURN ADDRESS                       46850028
                                   8962+*        FUNCTION:  IT WILL REMOVE A CONTROL BLOCK FROM THE FREE QUEUE  46900028
                                   8963+*                   STORE ALL REGISTERS AND INITIALIZE TCB.             46950028
                                   8964+*        GETTCB WILL BE CALLED FROM    CCWTRANS,MOVECCB                  47000028
                                   8965+*        AND WILL CALL                 ERROR                             47050028
                                   8966+*        REGISTER USAGE     R9,RE,RF                                     47100028


                                   8968+         DROP  RB                                          @D32XDRP 47130032
                            074D6  8969+GETTCB   EQU   *                                                       47151028
0074D6 58F0 A008            00008  8970+         L     RF,PIBSAV2 .        POINT TO SPECIAL SAVE AREA           47250028
0074DA 41FF 0050            00050  8971+         LA    RF,CCWTCB1-SAV2P1(RF) RF POINTS TO CCWTCB OF THIS TASK   47310028
0074DE D203 F080 9004 00080 06B74  8972+         MVC   TCBPTR,AUTCB .      ENQUEUE TCB BLOCK IN USED QUEUE      47350028
0074E4 50F0 9004            06B74  8973+         ST    RF,AUTCB .          SET ADDRESS OF USED TCB              47400028
0074E8 D747 F000 F000 00000 00000  8974+GETTCB2  XC    TCBFLAG(SAVEREG2-TCBFLAG),TCBFLAG  CLEAR CCWTCB          47450028
0074EE 902D F048            00048  8975+         STM   R2,RD,SAVEREG2 .    SAVE REGISTERS                       47500028
0074F2 D207 F078 9010 00078 06B80  8976+         MVC   SAVEREGE(L8),CCWERA SAVE ENTRY REGISTERS                 47550028
0074F8 D201 F002 0752 00002 00752  8977+         MVC   TCBPIK,TIK  .       MOVE TIK OR PIK VALUE IN CCWTCB      47650028
0074FE 07FE                        8978+         BR    RE .                RETURN TO CALLER                     47900028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  8980+*        PARAMETER: REG F POINTS TO CCWTCB TO BE RELEASED                48000028
                                  8981+*                   REG C CONTAINS RETURN ADDRESS                        48050028
                                  8982+*        FUNCTION:  IT WILL RELEASE TCB CONTRLO BLOCKS FROM USED QUEUE   48100028
                                  8983+*                   AND RESTORE REGISTERS.                               48150028
                                  8984+*        RELTCB WILL BE CALLED FROM    CCWTRANS,MOVECCB,CCWCNCL           48200028
                                  8985+*        REGISTER USAGE  R9,RC,RD,RE,RF                                   48250028

007500 D20F 9010 F070 06B80 00070  8987+RELTCB   MVC   CCWERA(L16),SAVEREGC SAVE REGISTERS                        48350028
007506 41E0 9004           06B74  8988+RELTCBNS LA    RE,AUTCB .           LOAD ADDR OF POINTER TO USED TCBQUE  48400028
00750A 58DE 0000           00000  8989+RELTCB1  L     RD,D0(RE) .          POINT TO NEXT TCB IN QUEUE           48450028
00750E 12DD                       8990+         LTR   RD,RD                BTAM 2ND TIME               @DA05856 48460032
007510 4780 99B2      07522       8991+         BZ    RELTCB2              YES                         @DA05856 48470032
007514 19DF                       8992+         CR    RD,RF .              IS BLOCK TO BE DEQUEUED              48500028
007516 4780 99B2      07522       8993+         BE    RELTCB2 .            YES                                  48550028
00751A 41ED 0080           00080  8994+         LA    RE,TCBPTR-CCWTCB(RD) POINT TO LOC. OF CHAIN POINTER       48600028
00751E 47F0 999A      0750A       8995+         B     RELTCB1 .            GOTO NEXT BLOCK                      48650028
007522 D203 E000 F080 00000 00080  8996+RELTCB2  MVC   D0(L4,RE),TCBPTR .  DEQUEUE TCB FROM USED TCB QUEUE      48700028
007528 BF2F 9004           06B74  8997+         ICM   R2,M15,AUTCB .       AT LEAST ONE TRANSL. IN PROCESS      48810028
00752C 4770 99C4      07534       8998+         BNZ   RELTCB3 .            YES,                                 48820028
007530 9283 0961      00961       8999+         MVI   TRTCCW,READY .       NO, ACTIVATE TASKS WAITING FOR CCWTR 48830028
007534 982B F048           00048  9000+RELTCB3  LM    R2,RB,SAVEREG2 .     RESTORE REGISTERS                    48850028
007538 07FC                       9001+         BR    RC .                 RETURN TO CALLER                     48900028
                           06B70  9002+         USING CCWTADR,R9,RB                                   @D32XDRP 48935032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9004+*        PARAMETER: ADDR.OF NEXT BLOCK WILL BE STORED IN REG 4          49950028
                                  9005+*                   REG 3 CONTAINS RETURN ADDRESS                       50000028
                                  9006+*        FUNCTION:  IT WILL REMOVE A COPY BLOCK FROM THE FREE COPY      50050028
                                  9007+*                   BLOCK QUEUE.IF REQUEST CANNOT BE FULLFILLED,THE     50100028
                                  9008+*                   REQUESTING TASK WILL BE SET IN WAIT STATE.EVERY     50150028
                                  9009+*                   TIME A COPY BLOCK IS RELEASED TO THE FREE QUEUE     50200028
                                  9010+*                   ALL WAITING TASKS FOR THAT QUEUE ARE SET TO ACTIVE  50250028
                                  9011+*                   IF MORE COPY BLOCKS THEN TOTAL NUMBER OF BLOCKS     50300028
                                  9012+*                   ARE REQUESTED,THEN THIS TASK WILL BE ABNORMAL TERM  50350028
                                  9013+*        GETBLOCK WILL BE CALLED FROM  CCWTRANS,LOCATE,TESTIDAL,          50400028
                                  9014+*                                      FIX4,GETCBUF                     50425028
                                  9015+*        AND WILL CALL                 RWAIT,SETBACK,ERROR                50450028
                                  9016+*        REGISTER USAGE  R1,R3,R4,R8,R9,RA,RC,RE                          50500028


00753A 1B44                       9018+GETBLOCK SR    R4,R4 .             CLEAR REGISTER                       50600028
00753C BF47 08ED        008ED     9019+         ICM   R4,M7,AFCB+D1 .     LOAD/TEST ADDR OF FREE COPY BLOCK    50650028
007540 4780 9A06  07576           9020+         BZ    GETBL1 .            FREE BLOCK QUEUE EMPTY,GOTO WAIT     50700028
007544 D203 08EC 4044 008EC 00044 9021+         MVC   AFCB,ANB .          DEQUEUE ONE BLOCK                    50750028
00754A D747 4000 4000 00000 00000 9022+         XC    CCWBL,CCWBL .       CLEAR COPY BLOCK                     50800028
007550 9160 1006      00006       9023+         TM    CCBCLS,BTAM+CCBCOPY BTAM & R1 POINTS TO COPIED CCB?      50900028
007554 07E3                       9024+         BCR   NO,R3 .             NO, RETURN                           50950028
007556 4380 1001        00001     9025+         IC    R8,UBTAMCB .        INCREASE NUMBER OF                   51000028
00755A 4188 0001        00001     9026+         LA    R8,D1(R8) .         USED COPY                            51050028
00755E 4280 1001        00001     9027+         STC   R8,UBTAMCB .        BLOCKS                               51100028
007562 9110 101A  0001A           9028+         TM    CCBFLAG,BTAM2       BTAM 2ND TIME?             @DA08731  51150033
007566 0783                       9029+         BCR   Z,R3 .              NO, RETURN                           51200028
007568 BF81 F001        00001     9030+         ICM   R8,M1,ADBTAMCB .    DECREASE NUMBER            @DA00013  51250030
00756C 0783                       9031+         BCR   Z,R3                                           @DA00013  51260030
00756E 0680                       9032+         BCTR  R8,R0 .             OF ADDITIONAL COPY                   51300028
007570 4280 F001        00001     9033+         STC   R8,ADBTAMCB .       BLOCKS                               51350028
007574 07F3                       9034+         BR    R3 .                RETURN TO CALLER                     51450028


                                  9036+*        HANDLING OF BUFFER EMPTY CONDITIONS                          51550028

                        07576     9038+GETBL1   EQU   *                                                      51650028
007576 9160 1006      00006       9039+         TM    CCBCLS,BTAM+CCBCOPY REQUEST FOR BTAM CCB OR NO BTAM ? ** 51710028
00757A 47E0 9A16      07586       9040+         BNO   GETBL11 .           YES, BRANCH    *** ONLY FOR          51720028
00757E 9110 101A      0001A       9041+         TM    CCBFLAG,BTAM2 .     BTAM 2ND TIME? *** TESTING           51750028
007582 4710 9E7C      079EC       9042+         BO    ERROR6 .            YES NO COPY BLOCKS AVAILABLE ***     51800028
                        07586     9043+GETBL11  EQU   *                         ***                            51810028
007586 901F 9010        06B80     9044+         STM   R1,RF,CCWERA        SAVE REGISTERS             @D32XDRP  51852032
00758A 5810 B530        080A0     9045+         L     R1,SAVCCBQ          ACCESS SAVED-CCB-COPY-BLOCK @D32XDRP 51854032
                                  9046+*                                  QUEUE                      @D32XDRP  51856032
00758E 4820 1042        00042     9047+         LH    R2,CCBBPT           POINT TO LAST ELEMENT      @D32XDRP  51856332
007592 1222                       9048+         LTR   R2,R2               TEST FOR QUEUE EMPTY       @D32XDRP  51856632
007594 4780 9A36      075A6       9049+         BZ    GETBL10             DO NORMAL EXCEPTION HANDLING@D32XDRP 51856932
                                  9050+*                                  IS EMPTY                   @D32XDRP  51857232
007598 1A12                       9051+         AR    R1,R2               R1 POINTS TO LAST ELEMENT IN@D32XDRP 51857532
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   9052+*                                THE QUEUE                    @D32XDRP 51857832
00759A 4520 B3D0              07F40  9053+         BAL   R2,FREECCB          FREE BOTTOM CCB.REPLICA ETC.@D32XDRP 51858132
00759E 981F 9010              06B80  9054+         LM    R1,RF,CCWERA        RESTORE REGISTERS            @D32XDRP 51858432
0075A2 47F0 99CA      0753A          9055+         B     GETBLOCK            CLAIM COPY BUFFER SUCCESSFUL@D32XDRP 51858732
0075A6 981F 9010              06B80  9056+GETBL10  LM    R1,RF,CCWERA        RESTORE REGISTERS            @D32XDRP 51859032
                              00000  9057+         USING CCBADR,R4                                                51860028
0075AA BF4F 9000              06B70  9058+         ICM   R4,M15,ACCBB .      CALC. NUMB. OF COMPL. CCB'S IN QUEUE 51870028
                              075AE  9059+GETBL1A  EQU   *                                             @DM14590 51870432
0075AE 4780 9A98      07608          9060+         BZ    GETBL1B                                      @DM14590 51880032
0075B2 9180 401A      0001A          9061+         TM    CCBFLAG,XCOMPL .    TRANSL. COMPLET ?                  51890028
0075B6 4710 9AF0      07660          9062+         BO    GETBL3 .            YES, SET TASK WAITING FOR BUFFER   51892028
0075BA BF4F 4044              00044  9063+         ICM   R4,M15,CCBNEXT .    NO, POINT TO NEXT CCB BLOCK        51894028
0075BE 47F0 9A3E      075AE          9064+         B     GETBL1A                                              51894432
0075C2 9101 F000      00000          9065+GETBL1X  TM    TCBFLAG,RFLAG       IS REPLICA TO BE CREATED     @DA10463 51895234
0075C6 47E0 9E46      079B6          9066+         BNO   ERROR3              NO, INSUFF. BUFFER SPACE     @DM14590 51895632
0075CA 901F 9010              06B80  9067+         STM   R1,RF,CCWERA        SAVE REGISTERS               @DA10463 51896034
0075CE BF4F F034              00034  9068+         ICM   R4,M15,TCBDCB       LOAD PTR TO DIDAL BL CH      @DA10463 51896434
0075D2 4780 9A6A      075DA          9069+         BZ    GETBL1Y             BR IF NO DIDAL BLOCKS        @DM14590 51897232
0075D6 4530 9B36              076A6  9070+         BAL   R3,RELBLOCK         RELEASE DIDAL BLOCKS         @DM14590 51897632
0075DA 9103 F000      00000          9071+GETBL1Y  TM    TCBFLAG,RFLAG+REPLCR IS REPLICA BEING CREATED    @DA10463 51897734
0075DE 4710 9A84      075F4          9072+         BO    GETBL1Z             YES, GO RELEASE REPLICA'S    @DA10463 51897834
0075E2 94FE F000      00000          9073+         NI    TCBFLAG,XFF-RFLAG   RESET REPLICA CREATION FLAG @DA10463 51897934
0075E6 981F 9010              06B80  9074+         LM    R1,RF,CCWERA        RESTORE REGISTERS            @DA10463 51898034
0075EA 9180 F038      00038          9075+         TM    DDALBLAD,EOCL       GETBLOCK FOR DIDAL           @DA10463 51898134
0075EE 4780 99CA      0753A          9076+         BZ    GETBLOCK            NO, TRY AGAIN                @DA10463 51898234
0075F2 07F3                          9077+         BR    R3                  RETURN WITHOUT BLOCKS        @DA10463 51898334
0075F4 94FC F000      00000          9078+GETBL1Z  NI    TCBFLAG,XFF-RFLAG-REPLCR RESET REPL. CR. FLG     @DA10463 51898434
0075F8 BF4F F02C              0002C  9079+         ICM   R4,M15,DYNAREA3      LOAD PTR TO REPLICA          @DA10463 51898634
0075FC 4780 93DA      06F4A          9080+         BZ    CCWTR31A            RETURN TO CCWTRANS IF NONE   @DM14590 51899232
007600 4530 9B36              076A6  9081+         BAL   R3,RELBLOCK         RELEASE REPLICA BLOCKS       @DM14669 51899632
007604 47F0 93DA      06F4A          9082+         B     CCWTR31A            RETURN TO CCWTRANS MAINLN    @DM14590 51900032
                              00000  9083+         USING CCBADR,R1                                                51902028
                                     9084+*        NO TRANSLATION COMPLETE                                        51905028
                                     9085+         DROP  RF                  ESTABLISH                    @DA10154 51906034
                              00000  9086+         USING CCWTCB,R4           ALTERNATE ADDRESSABILTY      @DA10154 51907034
                              07608  9087+GETBL1B  EQU   *                                                       51910028
007608 5840 9004              06B74  9088+         L     R4,AUTCB .          CALC NUMBER OF CCWTCB JUST IN USE  52000028
00760C 47F0 9AA8      07618          9089+         B     GETBL2C             LOOK IF CURRENT TASK         @DA10154 52020034
007610 BF4F 4080              00080  9090+GETBL1C  ICM   R4,M15,TCBPTR        ONLY ONE I/O REQUEST         @DA10154 52050034
                                     9091+*                                     IN TRANSL.               @D32XDRP 52070032
007614 4780 9A52      075C2          9092+         BZ    GETBL1X             SEE WETHER IT IS FASTTR      @DM14590 52074032
007618 194F                          9093+GETBL2C  CR    R4,RF               CURRENT TASK                 @DA10154 52100934
00761A 4780 9AA0      07610          9094+         BE    GETBL1C             YES, CHECK NEXT ONE          @DA10154 52101434
00761E D502 4015 B540 00015 080B0    9095+         CLC   TCBACCB+D1(L3),CON0 AT LEAST ONE BLOCK KEPT BY   @D32XDRP 52102032
                                     9096+*                                  THIS TRANSLATION             @D32XDRP 52104032
007624 4780 9AA0      07610          9097+         BE    GETBL1C             NO, CONTINUE SEARCH          @D32XDRP 52106032
                              00000  9098+         USING CCWBLOCK,R4         RESTORE ADDRESSABILY         @DA10154 52107034
                              00000  9099+         USING CCWTCB,RF           RESTORE ADDRESSABILY         @DA10154 52108034
007628 9120 1006      00006          9100+         TM    CCBCLS,CCBCOPY .    REQ. FOR CCB COPY BL.              52110028
00762C 4780 9AF0      07660          9101+         BZ    GETBL3 .            YES, SET TASK IN WAIT              52120028
007630 98BD F06C              0006C  9102+         LM    RB,RD,SAVEREGB .    ESTABLISH SUPERVISOR'S             52150028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   9103+*                                BASE REGISTERS                          52200028
007634 901F 9010            06B80  9104+          STM   R1,RF,CCWERA .     SAVE REGISTERS                          52300028
007638 58B0 08C8            008C8  9105+          L     RB,ACCWT2          LOAD 2ND BASE REGISTER      @D32XDRP 52310032
00763C 4550 B038            07BA8  9106+          BAL   R5,CORFIXIN .      CORRECT FIX INFORMATION                 52325028
007640 4550 B0B8            07C28  9107+          BAL   R5,SETBACK .       SET TASK BACK TO RESTART TRANSL.        52350028
                                   9108+*                                ON RETURN RA POINTS TO PIB OF TASK      52400028
                                   9109+*                                JUST SET BACK                           52450028
007644 927B A000      00000        9110+          MVI   PIBFLG,CCWBND .    INDICATE WAIT COND.                     52550028
007648 9200 0961      00961        9111+          MVI   TRTCCW,ZERO .      WAIT FOR CCWTR                          52600028
00764C 9601 A004      00004        9112+          OI    PIBDATFL,CSVRET    SET TO CALL SVRETURN        @DA10154 52660034
007650 D200 A008 087F 00008 0087F  9113+          MVC   PIBRID(L1),RID+D1  SAVE RID                    @DA10154 52720034
007656 981F 9010            06B80  9114+          LM    R1,RF,CCWERA .     RESTORE REGISTERS                       52800028
00765A 5860 086C            0086C  9115+          L     R6,DISPAD                                      @DM05356 52830033
00765E 07F6                        9116+          BR    R6 .               BRANCH TO DISPATCHER                    52850028
                            07660  9117+GETBL3    EQU   *                                                       52900028
007660 50C0 F024            00024  9118+          ST    RC,DYNAREA2        SAVE                        @DA05878 52950032
007664 50E0 F028            00028  9119+          ST    RE,DYNAREA2+4      REGS                        @DA05878 52960032
007668 58E0 F068            00068  9120+          L     RE,SAVEREGA .      RE POINTS TO PIB                        53000028
00766C 9275 E000      00000        9121+          MVI   PIBFLG-PIBADR(RE),BUFBND INDICATE WAITCONDITION          53050028
007670 9200 095B      0095B        9122+          MVI   TRTBUF,ZERO .      WAIT FOR BUFFER                         53100028
007674 58E0 0778            00778  9123+          L     RE,APMGR .         LOAD BASE FOR RWAIT                     53150028
007678 45CE 0282            00282  9124+          BAL   RC,RWAIT-PMGRADR(RE) GOTO WAIT STATUS                    53200028
00767C 58E0 F068            00068  9125+          L     RE,SAVEREGA        RELOAD PIB ADR           @DA08392 53202033
007680 9108 E00F      0000F        9126+          TM    PIBFLG2-PIBADR(RE),FETCHEOJ CNCL WILE COPYBL BND@DA08392 53204033
007684 4780 9B2A      0769A        9127+          BZ    NO75CNCL           NO, CONTINUE                @DA08901 53210033
007688 4550 B038            07BA8  9128+          BAL   R5,CORFIXIN        CORRECT FIXINFO             @DA08901 53215033
00768C 45E0 9E62            079D2  9129+          BAL   RE,ERRREL          RELEASE ALL                 @DA08901 53220033
007690 58B0 0844            00844  9130+          L     RB,HEX1000         LOW CORE BASE               @D34RDFG 53221034
007694 5860 086C            0086C  9131+          L     R6,DISPAD          EXIT ADDRESS                @DM05356 53222033
007698 07F6                        9132+          BR    R6                 LEAVE CCWTR. TO CANCEL      @DA08901 53225033
00769A 58C0 F024            00024  9133+NO75CNCL  L     RC,DYNAREA2        RELOAD                      @DA08901 53230033
00769E 58E0 F028            00028  9134+          L     RE,DYNAREA2+4       REGS                       @DA05878 53260032
0076A2 47F0 99CA      0753A        9135+          B     GETBLOCK                                                  53300028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9137+*        PARAMETER: REG 4 POINTS TO 1ST COPY BLOCK TO BE RELEASED       53400028
                                  9138+*                   REG 3 CONTAINS RETURN ADDRESS                       53450028
                                  9139+*        FUNCTION:  IT WILL ENQUEUE SINGLE OR CHAIN OF COPY BLOCKS BACK 53500028
                                  9140+*                   TO THE FREE COPY BLOCK QUEUE AND SETS ALL TASKS     53550028
                                  9141+*                   WAITING FOR A COPY BLOCK TO ACTIVE.                 53600028
                                  9142+*        RELBLOCK WILL BE CALLED FROM  UNFIX,RELCCB,CSWTRANS,FREECBUF,  53650032
                                  9143+*                                      CREATREP                          53720032
                                  9144+*        REGISTER USAGE  R3,R4,R5,R6,R9                                  53800028


0076A6 1854                       9146+RELBLOCK LR    R5,R4 .             FIND LAST BLOCK WHICH SHOULD BE       53900028
0076A8 BF67 5045          00045   9147+REL1     ICM   R6,M7,ANB+D1-CCWBLOCK(R5) RELEASED                       53950028
0076AC 4780 9B46    076B6         9148+         BZ    REL2                                                    54000028
0076B0 1856                       9149+         LR    R5,R6 .             ENQUEUE FREE COPY BLOCK QUEUE         54050028
0076B2 47F0 9B38    076A8         9150+         B     REL1                                                    54100028
0076B6 D203 5044 08EC 00044 008EC 9151+REL2     MVC   CCBNEXT-CCBADR(L4,R5),AFCB SET POINTER TO 1ST REL.      54150028
                                  9152+*                                    COPY BLOCK                        54160028
0076BC 5040 08EC          008EC   9153+         ST    R4,AFCB .           STORE NEW POINTER                     54200028
0076C0 9283 095B    0095B         9154+         MVI   TRTBUF,READY .      POST TASKS WAITING FOR BUFFER         54250028
0076C4 07F3                       9155+         BR    R3 .                RETURN                                54300028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9157+*        PARAMETER: REG 1 POINTS TO COPIED CCB                          55200028
                                  9158+*                   REG D POINTS TO CCBNEXT OF PREVIOUS CCB IN QUEUE    55250028
                                  9159+*                   REG 2 CONTAINS RETURN ADDRESS                       55300028
                                  9160+*        FUNCTION:  IT WILL MOVE PARTS OF THE COPIED CCB BACK TO THE    55350028
                                  9161+*                   THE ORIGINAL CCB.                                   55400028
                                  9162+*        RELCCB WILL BE CALLED FROM    CSWTRANS,MOVECCB                 55450028
                                  9163+*        AND WILL CALL                 RELBLOCK                         55500028
                                  9164+*        REGISTER USAGE  R1,R2,R3,R4,R9,RD                              55550028

0076C6 5840 1044            00044  9166+RELCCB   L     R4,CCBNEXT .        LOAD ADDR OF NEXT CCB COPY BLOCK     55650028
0076CA 504D 0000            00000  9167+         ST    R4,D0(RD) .         DEQUEUE CCB COPY BLOCK               55700028
0076CE 1841                        9168+         LR    R4,R1 .             R4 POINTS TO COPIED CCB              55750028
0076D0 5810 101C            0001C  9169+         L     R1,CCBVA .          GET ADDR OF VIRTUAL CCB              55800028
0076D4 D205 1000 4000 00000 00000  9170+         MVC   CCBCNT(L6),CCBCNT-CCBADR(R4) MOVE RESIDUAL COUNT,        55950028
                                   9171+*                                    COMM. AND STATUS BYTE             55950528
0076DA D200 1008 4008 00008 00008  9172+         MVC   CCBADR+8(1),8(R4)   MOVE 3895 ERROR CODE        @D34AEJR 55955534
0076E0 9140 100C      0000C        9173+         TM    CCBBY3,APPEN .     APPENDAGE RTN PRESENT        @DM02985 55981028
0076E4 4710 9B7E      076EE        9174+         BO    RELCCB1 .          YES,DON'T CHANGE APP.ADDRESS @DM02985 55991028
0076E8 D202 100D 400D 0000D 0000D  9175+         MVC   CCBCSWW,CCBCSWW-CCBADR(R4) MOVE CSWADDR FROM CSW       56050028
0076EE D703 4044 4044 00044 00044  9176+RELCCB1  XC    ANB,ANB .           CLEAR CHAINPTR               @DM02985 56100028
                                   9177+         USING CCBADR,R4           ESTABLISH ADDRESSABILITY     @D32XDRP 56110032
0076F4 9108 401A      0001A        9178+         TM    CCBFLAG,FASTTR      FAST-TRANS?                  @D32XDRP 56120032
0076F8 4710 9B92      07702        9179+         BO    RELCCB2             YES, CLEAR PARTS OF SAVED    @D32XDRP 56130032
                                   9180+*                                  CCB COPY                     @D32XDRP 56140032
0076FC 4530 9B36            076A6  9181+         BAL   R3,RELBLOCK .       RELEASE CCB COPY BLOCK               56150028
007700 07F2                        9182+         BR    R2 .                RETURN TO CALLER                     56200028
007702 941F 4002      00002        9183+RELCCB2  NI    CCBCOM1,CLRCOM1     CLEAR CHANNEL SCHEDULER BITS@D32XDRP 56206032
007706 9405 4003      00003        9184+         NI    CCBCOM2,CLRCOM2     IN COPIED CCB                @D32XDRP 56207032
00770A 9200 4004      00004        9185+         MVI   CCBSTA1,ZERO        CLEAR DEVICE STATUS          @D32XDRP 56208032
00770E 9200 4005      00005        9186+         MVI   CCBSTA2,ZERO        CLEAR CHANNEL STATUS         @D32XDRP 56209032
007712 9200 4000      00000        9187+         MVI   CCBCNT,ZERO         CLEAR THE                    @D32XDRP 56210032
007716 9200 4001      00001        9188+         MVI   CCBCNT+D1,ZERO      RESIDUAL COUNT               @D32XDRP 56211032
00771A 94F7 401A      0001A        9189+         NI    CCBFLAG,X'FF'-FASTTR   RESET FAST-TRANSL. BIT   @D32XDRP 56211532
00771E 07F2                        9190+         BR    R2                  RETURN TO CSWTRANS           @D32XDRP 56224032
                            00000  9191+         USING CCWBLOCK,R4         RE-ESTABLISCH ADDRESSABILITY@D32XDRP 56225032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                 9194+*        FUNCTIONS:                                                    56350028
                                 9195+*        RELEASE CCB-,CCW-, AND IDAL-BLOCKS                            56400028
                                 9196+*        FREE PAGES                                                    56450028
                                 9197+*        LINKAGE CONVENTIONS:                                          56500028
                                 9198+*        R1    POINTS TO A CCB COPY BLOCK OR ZERO                      56550028
                                 9199+*        RF    POINTS TO CCWTCB                              @D32XDRP 56570032
                                 9200+*        R2    RETURN REGISTER                                         56600028
                                 9201+*        RELALL WILL BE CALLED FROM    CCWTRANS,CCWRSVC,       @D32XDRP 56650032
                                 9202+*                                      SETBACK,ERRREL          @D32XDRP 56670032
                                 9203+*        AND WILL CALL                 UNFIX0,RELBLOCK                   56700028
                                 9204+*        REGISTER USAGE  R1,R2,R3,R4,RB,RD                             56750028


007720 1211                      9206+RELALL   LTR   R1,R1 .            IS CCB AVAILABLE?                     56850028
007722 0782                      9207+         BCR   Z,R2 .             NO,RETURN                             56900028
007724 41D0 9000       06B70     9208+         LA    RD,ACCBB .         POINT TO CCB COPY BLOCK               56950028
007728 584D 0000       00000     9209+RELALL1  L     R4,D0(RD) .        LOAD/TEST                 @DF00882    57000028
00772C 1244                      9210+         LTR   R4,R4 .           NEXT BLOCK                 @DF00882    57010028
00772E 0782                      9211+         BCR   Z,R2 .             NO CCB COPY BLOCK FOUND,RETURN        57050028
007730 1914                      9212+         CR    R1,R4 .            BLOCK FOUND                           57100028
007732 4780 9BCE 0773E           9213+         BE    RELALL2 .          YES                                   57150028
007736 41D0 4044       00044     9214+         LA    RD,ANB .           POINT TO NEXT BLOCK                   57200028
00773A 47F0 9BB8 07728           9215+         B     RELALL1                                                  57250028
00773E D203 D000 1044  00000 00044 9216+RELALL2 MVC   D0(L4,RD),CCBNEXT  DEQEUE CCB FROM ACT-CCB-C-BL@D32XDRP 57320032
007744 D703 1044 1044  00044 00044 9217+         XC    CCBNEXT,CCBNEXT .  CLEAR NEXT BLOCK PTR                 57350028
00774A 9140 101A       0001A     9218+         TM    CCBFLAG,TTFIX .    ANY PAGE FIXED ?          @D32XDRP 57360032
00774E 47E0 9BEE 0775E           9219+         BNO   RELALL2A .         NO, SKIP FREEING                      57370028
007752 5020 F01C       0001C     9220+         ST    R2,DYNAREA1 .      SAVE RETURN REGISTER                  57400028
007756 45D0 989C       0740C     9221+         BAL   RD,UNFIX0 .        FREE PAGES                @D32XDRP 57450032
00775A 5820 F01C       0001C     9222+         L     R2,DYNAREA1 .      RELOAD RETURN REGISTER                57500028
                       0775E     9223+RELALL2A EQU   *                                           @D32XDRP 57510032
00775E 9108 101A       0001A     9224+         TM    CCBFLAG,FASTTR     FAST-TRANS?               @D32XDRP 57550032
007762 4780 9C18 07788           9225+         BZ    RELALL21           NO, BRANCH                @D32XDRP 57550232
007766 1831                      9226+         LR    R3,R1              ENQUEUE -CCB-COPY-BLOCK   @D32XDRP 57550432
007768 5870 B530       080A0     9227+         L     R7,SAVCCBQ         ON THE TOP OF             @D32XDRP 57550632
00776C 1B37                      9228+         SR    R3,R7              THE SAVED-CCB-COPY        @D32XDRP 57550832
00776E 45D0 B4C0       08030     9229+         BAL   RD,ENQTOP0         BLOCK-QUEUE               @D32XDRP 57551032
007772 9604 101A       0001A     9230+         OI    CCBFLAG,SAVEDQ     MAKE IT ON SAVEDQ         @D32XDRP 57551232
007776 94F7 101A       0001A     9231+         NI    CCBFLAG,X'FF'-FASTTR   SET FASTTR. BIT OFF   @D32XDRP 57551432
00777A 4840 08C6       008C6     9232+         LH    R4,LOWFXPTR        WAS A CCB. ON SAVED QUEUE @D32XDRP 57551632
00777E 1244                      9233+         LTR   R4,R4              WITH PAGES FIXED ?        @D32XDRP 57551832
007780 0772                      9234+         BNZR  R2                 YES, RETURN               @D32XDRP 57552032
007782 4030 08C6       008C6     9235+         STH   R3,LOWFXPTR        UPDATE LOWFXPTR           @D32XDRP 57552232
007786 07F2                      9236+         BR    R2                 RETURN                    @D32XDRP 57552432
                       07788     9237+RELALL21 EQU   *                                           @D32XDRP 57552632
007788 9101 F000       00000     9238+         TM    TCBFLAG,RFLAG      IS REPLICA BEING CREATED? @D32XDRP 57558032
00778C 4780 9C34 077A4           9239+         BZ    RELALL2B           NO, BRANCH                @D32XDRP 57562032
007790 5840 F034       00034     9240+         L     R4,TCBDCB          LOAD POINTER TO DIDAL BL CHA@D32XDRP 57570032
007794 1244                      9241+         LTR   R4,R4              TEST FOR ZERO             @D32XDRP 57574032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007796 4780 9C34      077A4        9242+         BZ    RELALL2B             BRANCH IF NO DIDAL BLOCKS AV@D32XDRP 57578032
00779A 4530 9B36            076A6  9243+         BAL   R3,RELBLOCK          RELEASE DIDAL BLOCKS        @D32XDRP 57582032
00779E D70F F034 F034 00034 00034  9244+         XC    TCBDCB(L16),TCBDCB   REFRESH FAST-TRANS PART IN T@D32XDRP 57586032
0077A4 5840 1020            00020  9245+RELALL2B L     R4,CCBACB            LOAD POINTER TO CCW C BL CHA@D32XDRP 57590032
0077A8 1244                        9246+         LTR   R4,R4                TEST FOR ZERO               @D32XDRP 57594032
0077AA 4780 9C42      077B2        9247+         BZ    RELALL3 .            BRANCH IF NO MORE BLOCKS ARE AVAIL.  57600028
0077AE 4530 9B36            076A6  9248+         BAL   R3,RELBLOCK .        RELEASE CCW COPY BLOCK               57650028
0077B2 BF4F 1024            00024  9249+RELALL3  ICM   R4,M15,CCBICB .      LOAD/TEST IDAL BLOCK QUEUE           57700028
0077B6 4780 9C4E      077BE        9250+         BZ    RELALL4 .            IDALS AVAILABLE?                     57750028
0077BA 4530 9B36            076A6  9251+         BAL   R3,RELBLOCK .        YES,RELEASE IDAL BLOCK               57800028
0077BE 1841                        9252+RELALL4  LR    R4,R1 .              LOAD BLOCK ADDRESS FOR RELBLOCK      57850028
0077C0 5810 101C            0001C  9253+         L     R1,CCBVA .           POINT TO VIRTUAL CCB                 57900028
0077C4 4530 9B36            076A6  9254+         BAL   R3,RELBLOCK .        RELEASE CCB COPY BLOCK               57910032
0077C8 07F2                        9255+         BR    R2 .                 RETURN                               57920032
                                   9256+         DROP  RB                                        @D32XDRP 58001032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9258+*        PARAMETER: REG 1 POINTS TO COPIED CCB                @D32XDRP 58013032
                                  9259+*                   REG 2 POINTS TO COPIED CCW                @D32XDRP 58013632
                                  9260+*                   REG 7 CONTAINS RETURN ADDRESS             @D32XDRP 58014232
                                  9261+*                   REG F RETURNS THE VIRTUAL ADDRESS OF CCW  @D32XDRP 58014832
                                  9262+*        FUNCTION:  IT WILL RETRANSLATE THE CCW.ADDR.IN CSW FOR@D32XDRP 58015432
                                  9263+*                   BTAM APPEDNAGE ROUTINE                    @D32XDRP 58016032
                                  9264+*                   AND SVC 77                                @D32XDRP 58016632
                                  9265+*        CSWTRBTM WILL BE CALLED FROM I/O INTERRUPT HANDLER   @D32XDRP 58017232
                                  9266+*                   AND SVC 77                                @D32XDRP 58017832
                                  9267+*        REGISTER USAGE R1, R2, R4, R5, R9, RF                @D32XDRP 58018432


                            077CA  9269+CSWTRBTM EQU   *                                              58020028
0077CA 9025 9010            06B80  9270+         STM   R2,R5,CCWERA .      SAVE ENTRY REGISTER          58021028
0077CE 5820 0040            00040  9271+         L     R2,CSW              GET PARAMETER          @DM02325 58021528
0077D2 4122 0000            00000  9272+CSWTRSVC LA    R2,D0(R2) .         CLEAR HIGH ORDER BYTE  @DM02325 58022528
0077D6 1222                        9273+         LTR   R2,R2 .             ANY ADDRESS PASSED     @DM02325 58023028
0077D8 4780 9C94      07804        9274+         BZ    CSWBT3 .            CCWADDR=0                       58024028
0077DC 5840 1020            00020  9275+         L     R4,CCBACB .         POINT TO 1ST CCW COPY BLOCK     58025028
0077E0 1924                        9276+CSWBT1   CR    R2,R4 .             CCWADDR LESS BLOCKADDR          58026028
0077E2 4740 9C8A      077FA        9277+         BL    CSWBT2 .            YES                             58027028
0077E6 4154 0048            00048  9278+         LA    R5,MAXBL(R4)                                        58028028
0077EA 1925                        9279+         CR    R2,R5 .             CCWADDR LESS OR EQUAL BLOCKADDR+72 58029028
0077EC 4720 9C8A      077FA        9280+         BH    CSWBT2 .            NO                              58030028
0077F0 1B24                        9281+         SR    R2,R4 .             GET NEW CSWADR                  58031028
0077F2 5A20 403C            0003C  9282+         A     R2,VBA .            ADD VIRTUAL BLOCK ADDR          58032028
0077F6 47F0 9C94      07804        9283+         B     CSWBT3                                              58034028
0077FA BF47 4045            00045  9284+CSWBT2   ICM   R4,M7,ANB+D1 .      POINT TO NEXT CCW COPY BLOCK    58035028
0077FE 4770 9C70      077E0        9285+         BNZ   CSWBT1 .            END OF QUEUE-NO-                58036028
007802 1B22                        9286+         SR    R2,R2 .             NO CORRESP.ADDR.FOUND  @DM02325 58036528
007804 18F2                        9287+CSWBT3   LR    RF,R2 .             PASS RETURN VALUE IN REG F @DM02325 58037028
007806 9825 9010            06B80  9288+         LM    R2,R5,CCWERA .      RESTORE REGISTERS      @DM02325 58044028
00780A 5890 070C            0070C  9289+         L     R9,AINTER .         LOAD ADDR OF I/O INTER.HANDL@DM02325 58045028
00780E 07F7                        9290+         BR    R7 .                RETURN TO I/O INTER.HANDLER @DM02325 58047028
                                   9291+*                                  OR SVC 77 ROUTINE      @DM02325 58047528
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9293+*****************************************************************@D32XDRP 58100032
                                  9294+***************************************************************** @D32XDRP 58106032
                                  9295+* *                                                               @D32XDRP 58112032
                                  9296+* *                CCW - BACKTRANSLATION                          @D32XDRP 58118032
                                  9297+* *                                                               @D32XDRP 58124032
                                  9298+***************************************************************** @D32XDRP 58130032
                                  9299+* *                                                               @D32XDRP 58136032
                                  9300+* *  GENERAL FUNCTION:                                            @D32XDRP 58142032
                                  9301+* *                                                               @D32XDRP 58148032
                                  9302+* *      THE FUNCTION DEPENDS ON WHETER THE FASTTR-BIT IN THE     @D32XDRP 58154032
                                  9303+* *      CCB-FLAG (OF THE COPIED CCB) IS 'ON' OR 'OFF'.           @D32XDRP 58160032
                                  9304+* *                                                               @D32XDRP 58166032
                                  9305+* *      IF THE TRANSLATION WAS NOT SUPPORTED BY FAST-TRANSLATE   @D32XDRP 58172032
                                  9306+* *      THEN THE REGULAR RETRANSLATION IS PERFORMED INCLUDING    @D32XDRP 58178032
                                  9307+* *      THE FREEING OF DATA AREA PAGES AND THE RELEASE OF ALL    @D32XDRP 58184032
                                  9308+* *      OCCUPIED COPY BLOCKS.                                    @D32XDRP 58190032
                                  9309+* *                                                               @D32XDRP 58196032
                                  9310+* *      IN CASE OF SUPPORT BY FAST-TRANSLATE THE RETRANSLATION   @D32XDRP 58202032
                                  9311+* *      IS DONE IN THE REGULAR WAY, BUT WHAT IS BYPASSED IS      @D32XDRP 58208032
                                  9312+* *      THE FREEING OF PAGES AND RELEASING COPY BLOCKS.          @D32XDRP 58214032
                                  9313+* *      THE CCB-COPY BLOCK IS ENQUEUED IN THE SAVED-CCB-COPY-    @D32XDRP 58220032
                                  9314+* *      BLOCK-QUEUE INSTEAD, AND THE DEFIX-SWITCH IN THE         @D32XDRP 58226032
                                  9315+* *      SYSCOM IS TESTED.                                        @D32XDRP 58232032
                                  9316+* *                                                               @D32XDRP 58238032
                                  9317+* *      IF DEFIXSW=1, THIS MEANS THAT THE PAGING RATE IS IN      @D32XDRP 58244032
                                  9318+* *      THE DANGEROUS ZONE BEFORE THE LOAD LEVELER STARTS        @D32XDRP 58250032
                                  9319+* *      TRYING TO DEACTIVATE A PARTITION, THE DEFIX ROUTINE      @D32XDRP 58256032
                                  9320+* *      IS CALLED FOR THE LEAST RECENTLY USED CCB THAT IS        @D32XDRP 58262032
                                  9321+* *      KEPT AND THAT HAS STILL ITS ASSOCIATED DATA AREA         @D32XDRP 58268032
                                  9322+* *      PAGES FIXED.                                             @D32XDRP 58274032
                                  9323+* *      DEFIX WILL FREE THE DATA AREA PAGES ASSOCIATED WITH      @D32XDRP 58280032
                                  9324+* *      THE CCB POINTED TO BY LOWFXPTR AND WILL ALSO UPDATE      @D32XDRP 58286032
                                  9325+* *      LOWFXPTR SUCH THAT IT POINTS TO THE NEXT HIGHER          @D32XDRP 58292032
                                  9326+* *      ELEMENT IN THE SAVED-CCB-COPY-BLOCK-QUEUE.               @D32XDRP 58298032
                                  9327+* *                                                               @D32XDRP 58304032
                                  9328+* *  ENTRY POINTS:                                               @D32XDRP 58310032
                                  9329+* *      CSWTRANS - FROM I/O INTERRUPT HANDLER                    @D32XDRP 58316032
                                  9330+* *                                                               @D32XDRP 58322032
                                  9331+* *  INPUT:                                                       @D32XDRP 58328032
                                  9332+* *      R1 - POINTS TO COPIED CCB                                @D32XDRP 58334032
                                  9333+* *      R8 - RETURN ADDRESS                                      @D32XDRP 58340032
                                  9334+* *      RA - POINTS TO PIB OF REQUESTOR                          @D32XDRP 58346032
                                  9335+* *      R9 - FIRST BASE ADDRESS                                  @D32XDRP 58352032
                                  9336+* *      RB - SECOND BASE ADDRESS                                 @D32XDRP 58358032
                                  9337+* *                                                               @D32XDRP 58364032
                                  9338+* *  OUTPUT:                                                      @D32XDRP 58370032
                                  9339+* *      R1 - POINTS TO VIRTUAL CCB, UNLESS THE PIB IS POSTED     @D32XDRP 58376032
                                  9340+* *             - INDICATING MAVECCB: THE R1 IS UNCHANGED         @D32XDRP 58382032
                                  9341+* *      R8 - UNCHANGED                                           @D32XDRP 58388032
                                  9342+* *      RA - UNCHANGED                                           @D32XDRP 58394032
                                  9343+* *      R9 - UNCHANGED                                           @D32XDRP 58400032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9344+* *      RB - UNCHANGED                                          @D32XDRP 58406032
                                  9345+* *                                                              @D32XDRP 58450032
                                  9346+* *  EXTERNAL REFERENCES:                                        @D32XDRP 58452032
                                  9347+* *      TFREE   - ROUTINE TO FREE A PAGE                        @D32XDRP 58454032
                                  9348+* *      DELENTR - ROUTINE TO DELETE A ENTRY FROM PGQU           @D32XDRP 58456032
                                  9349+* *      RWAIT   - ROUTINE TO GO INTO WAIT STATUS                @D32XDRP 58458032
                                  9350+* *                                                              @D32XDRP 58460032
                                  9351+* *  EXITS NORMAL:                                              @D32XDRP 58462032
                                  9352+* *      RETURN ADDRESS IN R8                                    @D32XDRP 58464032
                                  9353+* *                                                              @D32XDRP 58466032
                                  9354+* *  EXITS ERROR:                                               @D32XDRP 58468032
                                  9355+* *      ERR14   - PAGE POOL TOO SMALL                           @D32XDRP 58470032
                                  9356+* *                                                              @D32XDRP 58472032
                                  9357+* *  SUBROUTINES:                                               @D32XDRP 58474032
                                  9358+* *      UNFIX, RELBLOCK, RELCCB, CCWRSVC, SETBACK, REALL,       @D32XDRP 58476032
                                  9359+* *      DELENT, CORFIXIN                                        @D32XDRP 58478032
                                  9360+* *                                                              @D32XDRP 58480032
                                  9361+* *  NOTES:                                                     @D32XDRP 58482032
                                  9362+* *  1)  IF THE FASTTR-BIT IN THE CCBFLAG (COPIED CCB) IS 'ON',@D32XDRP 58484032
                                  9363+* *      THEN FOR THE FREEING OF PAGES THE DIDAL IS USED AND     @D32XDRP 58486032
                                  9364+* *      NOT THE FIXINF BITSTRING.                               @D32XDRP 58488032
                                  9365+* *                                                              @D32XDRP 58490032
                                  9366+*************************************************************** @D32XDRP 58500032
                                  9367+*************************************************************** @D32XDRP 58520032

                           07810  9369+CSWTRANS EQU   *                                                 @D32XDRP 58600032
007810 901E 9010           06B80  9370+         STM   R1,RE,CCWERA       SAVE ENTRY REGISTER           @D32XDRP 58650032
007814 58B0 08C8           008C8  9371+         L     RB,ACCWT2          LOAD 2ND BASE REGISTER        @D32XDRP 58653032
                           06B70  9372+         USING CCWTADR,R9,RB                                    @D32XDRP 58656032
007818 1B22                       9373+         SR    R2,R2                                            @D32XDRP 58700032
00781A BF27 100D           0000D  9374+         ICM   R2,M7,CCBCSWW .    GET CSW ADDR FROM COPIED CCB           58750028
00781E 4780 9CE4     07854        9375+         BZ    CSWTR3 .           CSWADDR=0                              58800028
007822 9140 100C     0000C        9376+         TM    CCBBY3,APPEN .     APPENDAGE RTN PRESENT         @DM01788 58830028
007826 4710 9CE4     07854        9377+         BO    CSWTR3 .           YES,DON'T TRANSLATE           @DM01788 58840028
00782A 5840 1020           00020  9378+         L     R4,CCBACB .        POINT TO 1ST CCW COPY BLOCK            58850028
00782E 1924                       9379+CSWTR1   CR    R2,R4 .            CSWADDR LESS BLOCKADDR                 58900028
007830 4740 9CDC     0784C        9380+         BL    CSWTR2 .           YES                                    58950028
007834 4154 0048           00048  9381+         LA    R5,MAXBL(R4)                                              59000028
007838 1925                       9382+         CR    R2,R5 .            CSWADDR LESS OR EQUAL BLOCKADDR+72     59050028
00783A 4720 9CDC     0784C        9383+         BH    CSWTR2 .           NO                                     59100028
00783E 1B24                       9384+         SR    R2,R4 .            GET NEW CSWADR                         59150028
007840 5A20 403C           0003C  9385+         A     R2,VBA .           ADD VIRTUAL BLOCK ADDR                 59200028
007844 BE27 100D           0000D  9386+         STCM  R2,M7,CCBCSWW .    STORE NEW CSWADDR                      59250028
007848 47F0 9CE4     07854        9387+         B     CSWTR3                                                   59300028
00784C BF47 4045           00045  9388+CSWTR2   ICM   R4,M7,ANB+D1 .    POINT TO NEXT CCW COPY BLOCK           59350028
007850 4770 9CBE     0782E        9389+         BNZ   CSWTR1 .           END OF QUEUE-NO-                       59400028
                           07854  9390+CSWTR3   EQU   *                                                     59450028
007854 9108 101A     0001A        9391+         TM    CCBFLAG,FASTTR     FAST-TRANS?                   @D32XDRP 60000032
007858 4780 9D20     07890        9392+         BZ    CSWTR32            NO,BRANCH                     @D32XDRP 60000332
00785C 4131 0000           00000  9393+         LA    R3,D0(R1)          ENQUEUE CCB-COPY-BLOCK        @D32XDRP 60001532
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007860 5870 B530            080A0  9394+         L     R7,SAVCCBQ          ON THE TOP OF                @D32XDRP 60001832
007864 1B37                        9395+         SR    R3,R7               THE SAVED CCB-COPY-          @D32XDRP 60002132
007866 45D0 B4C0            08030  9396+         BAL   RD,ENQTOP0          BLOCK-QUEUE, LEAVE IT ON     @D32XDRP 60002432
                                   9397+*                                   THE ACTIVE QUEUE             @D32XDRP 60002732
00786A 9604 101A      0001A        9398+         OI    CCBFLAG,SAVEDQ      MAKE IT ON SAVED-QUEUE       @D32XDRP 60003032
00786E 4840 08C6            008C6  9399+         LH    R4,LOWFXPTR         WAS ACCB ON QUEUE WITH       @D32XDRP 60003332
007872 1244                        9400+         LTR   R4,R4               PAGES FIXED?                 @D32XDRP 60003632
007874 4770 9D0C      0787C        9401+         BNZ   CSWTR31             YES, BRANCH                  @D32XDRP 60003932
007878 4030 08C6            008C6  9402+         STH   R3,LOWFXPTR         SET LOWFXPTR                 @D32XDRP 60004532
                            0787C  9403+CSWTR31  EQU   *                                               @D32XDRP 60004832
00787C 91FF 08C4      008C4        9404+         TM    DEFIXSW,X'FF'       IS DEFIX-ING NECESSARY ?     @D32XDRP 60006832
007880 4780 9D38      078A8        9405+         BZ    CSWTR4              NO,SKIP UNFIX + REL.OF BLK.  @D32XDRP 60008832
007884 4520 B4A8            08018  9406+         BAL   R2,DEFIX            YES, DEFIX                   @D32XDRP 60012832
007888 5810 9010            06B80  9407+         L     R1,CCWERA           RELOAD CORRECT R1            @D32XDRP 60013432
00788C 47F0 9D38      078A8        9408+         B     CSWTR4              SKIP RELEASE OF BLOCKS       @D32XDRP 60014032
                            07890  9409+CSWTR32  EQU   *                                               @D32XDRP 60014832
007890 45D0 988C            073FC  9410+         BAL   RD,UNFIX            FREE PAGES                   @D32XDRP 60042032
007894 5840 1020            00020  9411+         L     R4,CCBACB .         POINT TO CCW COPY BLOCK QUEUE                60050028
007898 4530 9B36            076A6  9412+         BAL   R3,RELBLOCK .       RELEASE CCW COPY BLOCK                       60100028
00789C BF4F 1024            00024  9413+         ICM   R4,M15,CCBICB .     POINT TO IDAL BLOCK QUEUE                    60150028
0078A0 4780 9D38      078A8        9414+         BZ    CSWTR4 .            IDAL BLOCK QUEUE AVAILABLE                   60200028
0078A4 4530 9B36            076A6  9415+         BAL   R3,RELBLOCK .       RELEASE BLOCKS                               60250028
                            078A8  9416+CSWTR4   EQU   *                                                             60300028
0078A8 5850 101C            0001C  9417+         L     R5,CCBVA .          GET ADDR OF VIRTUAL CCB                      60550028
0078AC B165 0000            00000  9418+         LRA   R6,D0(R5) .         CCB IN CORE?                                 60600028
0078B0 4770 9D72      078E2        9419+         BNZ   CSWTR7 .            NO                                           60650028
0078B4 4165 000F            0000F  9420+         LA    R6,CCBLNG(R5) .     LOAD ENDADDR OF CCB                          60700028
0078B8 B166 0000            00000  9421+         LRA   R6,D0(R6) .         END OF CCB IN CORE?                          60750028
0078BC 4770 9D72      078E2        9422+         BNZ   CSWTR7 .            NO                                           60800028


                                   9424+*****    POST INFORMATION FROM REAL TO VIRTUAL CCB *****                      60900028

0078C0 41D0 9000            06B70  9426+         LA    RD,ACCBB .          POINT TO CCB BLOCK QUEUE POINTER             61000028
0078C4 4111 0000            00000  9427+         LA    R1,D0(R1) .         CLEAR HIGH ORDER BYTE FOR COMPARE            61025028
0078C8 582D 0000            00000  9428+CSWTR5   L     R2,D0(RD) .         LOAD ADDRESS OF NEXT CCB BLOCK               61100028
0078CC 1921                        9429+         CR    R2,R1 .             IS IT CCB BLOCK JUST IN USE?                 61150028
0078CE 4780 9D6A      078DA        9430+         BE    CSWTR6 .            YES                                          61200028
0078D2 41D2 0044            00044  9431+         LA    RD,CCBNEXT-CCBADR(R2) LOAD ADDR OF CHAIN POINTER                 61250028
0078D6 47F0 9D58      078C8        9432+         B     CSWTR5 .            TEST NEXT CCB BLOCK                          61300028
0078DA 4520 9B56            076C6  9433+CSWTR6   BAL   R2,RELCCB .         MOVE PARTS OF CCB, RELEASE CCB BLOCK         61350028
0078DE 47F0 9D76      078E6        9434+         B     CSWTR8 .            RESTORE REGISTERS                            61400028


0078E2 9604 A004      00004        9436+CSWTR7   OI    PIBDATFL,CMOVECCB . POST PIB INDICATING MOVECCB REQ              61500028
                            078E6  9437+CSWTR8   EQU   *                                               @D32XDRP 61510032
0078E6 5010 9010            06B80  9438+         ST    R1,CCWERA           SAVE R1                      @D32XDRP 61551032
0078EA 9500 095B      0095B        9439+         CLI   TRTBUF,ZERO         TASKS WAITING FOR COPY-BL ?  @D32XDRP 61552032
0078EE 4770 9D96      07906        9440+         BNE   CSWTR81             NO,BRANCH                    @D32XDRP 61553032
0078F2 5810 B530            080A0  9441+         L     R1,SAVCCBQ          ACCESS SAVED-CCB-C-BL-Q      @D32XDRP 61554032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0078F6 4820 1042            00042  9442+         LH    R2,CCBBPT           POINT TO LAST ELEMENT       @D32XDRP 61555032
0078FA 1222                        9443+         LTR   R2,R2               QUEUE EMPTY                 @D32XDRP 61556032
0078FC 4780 9D9A      0790A        9444+         BZ    CSWTR82             YES, BRANCH                 @D32XDRP 61557032
007900 1A12                        9445+         AR    R1,R2                                           @D32XDRP 61558032
007902 4520 B3D0            07F40  9446+         BAL   R2,FREECCB          FREE BOTTOM CCB INCL.REPLICA@D32XDRP 61559032
                            07906  9447+CSWTR81  EQU   *                                               @D32XDRP 61560032
007906 4520 9F1E            07A8E  9448+         BAL   R2,DEFIXCON         FREE PAGES HELD BY FAST-TR  @D32XDRP 61561032
                                   9449+*                                  IF PMGR-TASK NOT POSTED.    @D32XDRP 61562032
                            0790A  9450+CSWTR82  EQU   *                                               @D32XDRP 61564032
00790A 981E 9010            06B80  9451+         LM    R1,RE,CCWERA        RESTORE REGISTERS           @D32XDRP 61566032
00790E 9283 0961      00961        9452+         MVI   TRTCCW,READY .      ACTIVATE TASKS WAITING FOR CCWTR     61575028
                            00000  9453+         USING SYSS00,R0,RB      RESTORE LOW CORE BASE         @D34RDFG 61590034
007912 D501 08F0 B6DA 008F0 016DA  9454+         CLC   CNTCOM,H1 .       BRANCH IF PAGES             @DM03706 61630028
                                   9455+         DROP  RB                DROP LOW CORE BASE            @D34RDFG 61640034
007918 47B0 9DB8      07928        9456+         BNL   CSWTR9 .            CAN BE FREED              @DM03706 61680028
00791C 9500 095D      0095D        9457+         CLI   TRTFIX,ZERO .     BRANCH IF PFIX              @DM03706 61730028
007920 4770 9DB8      07928        9458+         BNE   CSWTR9 .            IS POSTED                 @DM03706 61780028
007924 4550 9F9A            07B0A  9459+         BAL   R5,CCWRSVC .      NO, DO RETRANSLATION        @DM03706 61830028
007928 5890 070C            0070C  9460+CSWTR9   L     R9,AINTER .       LOAD ADDR. I/O INTERR. HANDL.@DM03706 62025028
00792C 07F8                        9461+         BR    R8 .                RETURN TO I/O INTERRUPT HANDLER     62050028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9463+*        PARAMETER: REG F POINTS TO CCWTCB (ENTRY DELENT)              63263028
                                  9464+*                   REG A CONTAINS PIK/TIK (ENTRY DELENTB)             63263528
                                  9465+*                   REG 4 CONTAINS RETURN ADDRESS                      63264028
                                  9466+*        FUNCTION:  REMOVES THE PGQU ENTRY OF A GIVEN TASK (INDICATED  63265028
                                  9467+*                   BY THE CCWTCB) FROM THE PGQU                       63266028
                                  9468+*        DELENT WILL BE CALLED FROM    CCWRSVC                          63267028
                                  9469+*        DELENTB WILL BE CALLED FROM   RESET44                          63267228
                                  9470+*        AND WILL CALL                 DELENTR                          63267428
                                  9471+*        REGISTER USAGE  R4,R6,R7,R8,RA,RE,RF                           63268028
                                  9472+*                                                                       63269028
00792E 48A0 F002          00002   9473+DELENT   LH    RA,TCBPIK .          RA CONTAINS TIK/PIK               63270028
                          082E6   9474+         USING PMGRADR,RE                                              63274028
007932 58E0 0778          00778   9475+DELENTB  L     RE,APMGR .           SET BASE REGISTER FOR PAGE MANAGER  63275028
007936 4180 E352          08638   9476+         LA    R8,PGQU .            LOAD ADDR. OF PAGE QUEUE          63276028
00793A 5870 E48A          08770   9477+         L     R7,AEOPGQU .         LOAD ENDADDR. OF PAGE QUEUE       63277028
00793E 1978                       9478+DELENT1  CR    R7,R8 .              IF END OF PGQU REACHED            63278028
007940 0784                       9479+         BCR   E,R4 .               RETURN, NO ENTRY FOUND            63278828
007942 BDA1 8003          00003   9480+         CLM   RA,M1,D3(R8) .       PGQU ENTRY TO BE REMOVED ?        63280028
007946 4780 9DE2    07952         9481+         BE    DELENT2 .            YES                               63282028
00794A 4188 0004          00004   9482+         LA    R8,D4(R8) .          GET NEXT ENTRY IN QUEUE           63283028
00794E 47F0 9DCE    0793E         9483+         B     DELENT1 .            AND BRANCH TO TEST IT             63284028
007952 456E 0B8A          00B8A   9484+DELENT2  BAL   R6,DELENTR-PMGRADR(RE) DELETE ENTRY FROM PGQU            63290028
007956 47F4 0004    00004         9485+         B     D4(R4) .             RETURN, ENTRY FOUND               63295028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9487+*        PARAMETER: REG 1 POINTS TO COPIED CCB                          65700028
                                  9488+*                   REG 8 CONTAINS RETURN ADDRESS                       65750028
                                  9489+*        FUNCTION:  IT WILL RELEASE THE COPY BUFFERS AND THE COPIED     65800028
                                  9490+*                   CCB AND RELEASE TCB CONTROL BLOCKS.                 65850028
                                  9491+*        MOVECCB WILL BE CALLED FROM   DISPATCHER                       65900028
                                  9492+*        AND WILL CALL                 GETTCB,RELTCB,RELCCB             65950028
                                  9493+*        REGISTER USAGE  R1,R2,R8,R9,RC,RD,RE,RF                        66000028


00795A 90EF 9010            06B80  9495+CCBMOVE  STM    RE,RF,CCWERA .      SAVE ENTRY REGISTERS                66100028
00795E 45E0 9966            074D6  9496+         BAL    RE,GETTCB .         GET TCB AND INITIALIZE IT           66150028
007962 58B0 08C8            008C8  9497+         L      RB,ACCWT2           LOAD 2ND BASE REG.          @D32XDRP 66160032
                            06B70  9498+         USING  CCWTADR,R9,RB                                   @D32XDRP 66170032
007966 18E1                        9499+         LR     RE,R1 .             SAVE REGISTER                       66200028
007968 41D0 9000            06B70  9500+MOVECCB0 LA     RD,ACCBB .          SET POINTER TO CCB COPY BLOCK QUEUE 66250028
00796C BF1F D000            00000  9501+MOVECCB1 ICM    R1,M15,D0(RD) .     LOAD/TEST ADDRESS OF NEXT BLOCK     66300028
007970 4780 9E26      07996        9502+         BZ     MOVECCB5 .          BRANCH IF END OF QUEUE              66350028
007974 D501 1018 F002 00018 00002  9503+MOVECCB2 CLC    CCBPIK,TCBPIK .     PIK IN CCB EQUAL REQUESTOR'S PIK?   66400028
00797A 4770 9E16      07986        9504+         BNE    MOVECCB3 .          NO                                  66450028
00797E 9180 1002      00002        9505+         TM     CCBCOM1,TRABIT .    IS CCB ALREADY POSTED?              66500028
007982 4710 9E1E      0798E        9506+         BO     MOVECCB4 .          YES                                 66550028
007986 41D0 1044            00044  9507+MOVECCB3 LA     RD,CCBNEXT .        POINT TO CHAIN POINTER              66600028
00798A 47F0 9DFC      0796C        9508+         B      MOVECCB1 .          TEST NEXT BLOCK                     66650028
00798E 4520 9B56            076C6  9509+MOVECCB4 BAL    R2,RELCCB .         COPY PARTS OF CCB, RELEASE BLOCK    66700028
007992 47F0 9DF8      07968        9510+         B      MOVECCB0 .          TEST AGAIN                          66750028
007996 181E                        9511+MOVECCB5 LR     R1,RE .             RESTORE REGISTER R1                 66800028
                                   9512+         DROP   RB                                              @D32XDRP 66811532
007998 45C0 9990            07500  9513+         BAL    RC,RELTCB .         RELEASE TCB                         66850028
00799C 98CF 9010            06B80  9514+         LM     RC,RF,CCWERA .      RESTORE REGISTER RC,RD,RE,RF        66900028
0079A0 07F8                        9515+         BR     R8 .                RETURN TO DISPATCHER                66950028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


0079A2 45E0 9E62           079D2  9518+ERROR1   BAL   RE,ERRREL .          RELEASE ALL                              67150028
0079A6 47F0 09F2      009F2       9519+         B     ERR25 .              INVALID ADDRESS                          67200028
0079AA 45C0 9990           07500  9520+ERROR2   BAL   RC,RELTCB .          RELEASE CCWTCB                           67250028
0079AE 98CF 9010           06B80  9521+         LM    RC,RF,CCWERA .       RESTORE REGISTERS                        67275028
0079B2 47F0 09D6      009D6       9522+         B     ERR11 .              UNSUPPORTED DEVICE                       67300028
                           06B70  9523+         USING CCWTADR,R9,RB                                 @D32XDRP 67310032
0079B6 4550 B038           07BA8  9524+ERROR3   BAL   R5,CORFIXIN .        CORRECT FIXINF                           67325028
0079BA 45E0 9E62           079D2  9525+         BAL   RE,ERRREL .          RELEASE ALL                              67350028
0079BE 47F0 09D8      009D8       9526+         B     ERR12 .              INSUFFICIENT BUFFER SPACE                67400028
0079C2 45E0 9E62           079D2  9527+ERROR4   BAL   RE,ERRREL .          RELEASE ALL                              67450028
0079C6 47F0 09DA      009DA       9528+         B     ERR13 .              CCWLNG > 32K                             67500028
0079CA 45E0 9E62           079D2  9529+ERROR5   BAL   RE,ERRREL .          RELEASE ALL                              67550028
0079CE 47F0 09DC      009DC       9530+         B     ERR14 .              PAGE POOL TOO SMALL                      67600028
0079D2 50E0 F078           00078  9531+ERRREL   ST    RE,SAVEREGE .        SAVE RETURN REGISTER                     67607528
0079D6 58B0 08C8           008C8  9532+         L     RB,ACCWT2            LOAD 2ND BASE REG.          @D32XDRP 67609332
                           06B70  9533+         USING CCWTADR,R9,RB                                 @D32XDRP 67610332
0079DA 5810 F014           00014  9534+         L     R1,TCBACCB .         POINT TO CCB COPY BLOCK                  67612332
0079DE 4520 9BB0           07720  9535+         BAL   R2,RELALL .          RELEASE ALL BLOCKS AND FREE              67615028
                                  9536+         DROP  RB                                            @D32XDRP 67617032
0079E2 45C0 9990           07500  9537+         BAL   RC,RELTCB .          RELEASE CCWTCB                           67622528
0079E6 98CF 9010           06B80  9538+         LM    RC,RF,CCWERA .       RESTORE REGISTERS                        67630028
0079EA 07FE                       9539+         BR    RE .                 RETURN                                   67637528
0079EC 98BD F06C           0006C  9540+ERROR6   LM    RB,RD,SAVEREGB .     RESTORE BASE REGISTERS                   67650028
0079F0 47F0 0B06      00B06       9541+         B     CCWTERR .            GOTO HARD WAIT                Z0849 67750028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9543+*     THIS ROUTINE HAS BEEN MOVED TO LOWER ADDRESS RANGE       @DM12791 67765032
0079F4 5890 077C           0077C  9544+CBUF     L     R9,ACCWT             LOAD BASE REGISTER          @D34RDFG 67772034
0079F8 91F0 0021      00021        9545+          TM    SVOLDP+D1,KEY0 .     HAS REQUESTOR KEY ZERO?     @D34RDFG 67780034
0079FC 4770 09EA      009EA        9546+          BNZ   ERR21 .              NO, ILLEGAL SVC                      67785032
007A00 1241                        9547+          LTR   R4,R1 .              IS PARAMETER SUPPLIED?               67790032
007A02 4770 9EB6      07A26        9548+          BNZ   FRCBUF .             YES, FREECBUF REQUEST                67795032
007A06 BF47 08ED           008ED   9549+          ICM   R4,M7,AFCB+D1 .      IS COPY BUFFER AVAILABLE?            67800032
007A0A 0786                        9550+          BCR   Z,R6 .               NO, EXIT                             67805032
                           00000   9551+          USING SYSS00,R0,RB .       RESTORE LOW CORE BASE       @D34RDFG 67810034
007A0C 4110 B6B4           016B4   9552+          LA    R1,TXTCCB .          LET REG. 1 POINT TO CCB OF FETCH     67815032
                                   9553+*                                    I.E. A NON-BTAM CCB                  67820032
                                   9554+          DROP  RB .                 DROP LOW CORE BASE          @D34RDFG 67825034
007A10 58B0 08C8           008C8   9555+          L     RB,ACCWT2            LOAD 2ND BASE REG OF CCW-TR @D32XDRP 67835032
                           06B70   9556+          USING CCWTADR,R9,RB                                    @D32XDRP 67840032
007A14 4530 99CA           0753A   9557+          BAL   R3,GETBLOCK .        GET A COPY BLOCK                     67850032
007A18 18F4                        9558+          LR    RF,R4 .              PUT CBUF ADDR. INTO RET.CODE REG.    67855032
007A1A 4110 0030           00030   9559+          LA    R1,SVER01-SVEARA .   GET OFFSET FOR REG1 IN SAVE AREA     67860032
                           00000   9560+          USING SYSS00,R0,RB .       RESTORE LOW CORE BASE       @D34RDFG 67865034
007A1E 58B0 0844           00844   9561+          L     RB,HEX1000           RESTORE STANDARD BASE REG   @D32XDRP 67875032
007A22 47F0 B140      01140        9562+          B     RETCODE .            PASS VALUE TO REQUESTOR.             67885032
                                   9563+          DROP  RB                   DROP LOW CORE BASE          @D34RDFG 67890034
                           07A26   9564+FRCBUF    EQU   *                                                @D32XDRP 67895032
007A26 58B0 08C8           008C8   9565+          L     RB,ACCWT2            LOAD 2ND BASE REG OF CCW-TR @D32XDRP 67905032
                           06B70   9566+          USING CCWTADR,R9,RB                                    @D32XDRP 67910032
007A2A 4530 9B36           076A6   9567+          BAL   R3,RELBLOCK .        FREE COPY BUFFER            @D32XDRP 67920032
007A2E 58B0 0844           00844   9568+          L     RB,HEX1000           RESTORE STANDARD BASE REG   @D32XDRP 67925032
007A32 5860 086C           0086C   9569+          L     R6,DISPAD            RELOAD DISPATCHER ADDR      @DM05356 67930033
007A36 07F6                        9570+          BR    R6 .                 EXIT                                 67935032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9572+*        PARAMETER: REG 7 CONTAINS TIK/PIK OF TASK TO BE DEACTIVATED    68550028
                                  9573+*                   REG 2 CONTAINS ZERO, IF NO ENTRY IN PGQU            68552528
                                  9574+*                   REG 8 CONTAINS RETURN ADDRESS                       68575028
                                  9575+*        FUNCTION:  SETS A TASK BACK TO RESTART CCWTRANSL.IF A          68600028
                                  9576+*                   CCWTRANSL. FOR THIS TASK IS IN PROCESS              68625028
                                  9577+*        CCWDEACT WILL BE CALLED FROM       DEACT                       68650028
                                  9578+*        AND WILL CALL                      CORFIXIN,SETBACK            68675028
                                  9579+*        REGISTER USAGE   R2,R5,R7,R8,R9,RF                             68700028

007A38 901F 9010          06B80  9581+CCWDEACT STM   R1,RF,CCWERA .      SAVE ENTRY REGISTERS                  68750028
007A3C 58B0 08C8          008C8  9582+         L     RB,ACCWT2           LOAD 2ND BASE REG OF CCW-TR @D32XDRP 68760032
                          06B70  9583+         USING CCWTADR,R9,RB                                       @D32XDRP 68767032
007A40 BFFF 9004          06B74  9584+         ICM   RF,M15,AUTCB .     POINT TO FIRST TCB IN QUEUE   @DF00917 68775028
007A44 4780 9F00    07A70       9585+         BZ    CCWDE4 .           RETURN,NO TRANSL.PRESENT      @DF00917 68785028
007A48 47F0 9EE4    07A54       9586+         B     CCWDE2 .                                                  68800028
007A4C BFFF F080          00080  9587+CCWDE1   ICM   RF,M15,TCBPTR .     POINT TO NEXT TCB IN QUEUE            68825028
007A50 4780 9F00    07A70       9588+         BZ    CCWDE4 .           RETURN, NO CCWTR. FOR THIS TASK       68850028
007A54 4970 F002          00002  9589+CCWDE2   CH    R7,TCBPIK .        CORRECT TCB?                          68875028
007A58 4770 9EDC    07A4C       9590+         BNE   CCWDE1 .           NO, CONTINUE SEARCH                   68900028
007A5C 1222                     9591+         LTR   R2,R2 .            YES, ENTRY IN PGQU ?                  68905028
007A5E 4770 9EF6    07A66       9592+         BNZ   CCWDE3 .           YES, FIX INF. IS CORRECT              68910028
007A62 4550 B038          07BA8  9593+         BAL   R5,CORFIXIN .      NO, CORRECT FIX-INFORMATION           68915028
007A66 4550 B0B8          07C28  9594+CCWDE3   BAL   R5,SETBACK .       SET CCWTR. BACK                       68925028
007A6A 981F 9010          06B80  9595+         LM    R1,RF,CCWERA .     RELOAD ENTRY REGISTERS        @DM03449 68950028
007A6E 07F8                      9596+         BR    R8 .               RETURN                                68975028

007A70 981F 9010          06B80  9598+CCWDE4   LM    R1,RF,CCWERA .     RELOAD ENTRY REGISTERS        @DM03449 68985028
007A74 47F8 0004    00004       9599+         B     D4(R8)             NOTHING TO RESET,RETURN       @DM03449 68990028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9601+************************************************************  @D32XDRP 69004032
                                  9602+*                                                              @D32XDRP 69008032
                                  9603+*      DEFIXCON AND DEFIXCOE SUBROUTINES                       @D32XDRP 69012032
                                  9604+*                                                              @D32XDRP 69016032
                                  9605+************************************************************  @D32XDRP 69020032
                                  9606+*                                                              @D32XDRP 69024032
                                  9607+*      FUNCTION:                                               @D32XDRP 69028032
                                  9608+*        FREES DATA AREA PAGES ASSOCIATED WITH COPIED CCB'S    @D32XDRP 69032032
                                  9609+*        POINTED TO BY LOWFXPTR UNTILL PMGR-TASK IS POSTED     @D32XDRP 69036032
                                  9610+*        (TRTFIX # X '00') OR LOWFXPTR=0                       @D32XDRP 69040032
                                  9611+*        (I.E. NO MORE PAGES HELD BY FAST-TRANSL).             @D32XDRP 69044032
                                  9612+*                                                              @D32XDRP 69048032
                                  9613+*      ENTRY POINTS:                                           @D32XDRP 69049032
                                  9614+*        DEFIXCON  -  FROM CSWTRANS                            @D32XDRP 69050032
                                  9615+*        DEFIXCOE  -  FROM DEQUX                               @D32XDRP 69051032
                                  9616+*                                                              @D32XDRP 69052032
                                  9617+*      INPUT:                                                  @D32XDRP 69052632
                                  9618+*        LOWFXPTR - DISPLACEMENT OF CCB C BL FROM BASE OF      @D32XDRP 69053232
                                  9619+*                   - SAVED-CCB-COPY-BLOCK-QUEUE               @D32XDRP 69053832
                                  9620+*        R2       - RETURN ADDRESS IF ENTERED VIA DEFIXCON     @D32XDRP 69054432
                                  9621+*        R8       - RETURN ADDRESS IF ENTERED VIA DEFIXCOE     @D32XDRP 69055032
                                  9622+*                                                              @D32XDRP 69056632
                                  9623+*      OUTPUT:                                                 @D32XDRP 69056732
                                  9624+*        LOWFXPTR - DISPLACEMENT FROM SAVED-CCB-C-BL-Q         @D32XDRP 69056832
                                  9625+*                   - BASE OF NEXT HIGER CCB C BL IN THE QUEUE @D32XDRP 69056932
                                  9626+*        R2,R8    - UNCHANGED                                  @D32XDRP 69057032
                                  9627+*                                                              @D32XDRP 69057132
                                  9628+*      EXITS NORMAL:                                           @D32XDRP 69057232
                                  9629+*        RETURN ADDRESS IN R2 OR R8                            @D32XDRP 69057332
                                  9630+*                                                              @D32XDRP 69057432
                                  9631+*      EXITS ERROR:                                            @D32XDRP 69057532
                                  9632+*        NONE                                                  @D32XDRP 69057632
                                  9633+*                                                              @D32XDRP 69057732
                                  9634+*      EXTERNAL REFERENCES:                                    @D32XDRP 69057832
                                  9635+*        NONE                                                  @D32XDRP 69057932
                                  9636+*                                                              @D32XDRP 69058032
                                  9637+*      SUBROUTINES:                                            @D32XDRP 69058132
                                  9638+*        UNFIX                                                 @D32XDRP 69058232
                                  9639+*                                                              @D32XDRP 69058332
                                  9640+*      REGISTER CHANGED:                                       @D32XDRP 69058432
                                  9641+*        R1, R3, R4, R5, R6, R7, RC, RD, RE                    @DM12800 69058532
                                  9642+*                                                              @D32XDRP 69058632
                                  9643+************************************************************  @D32XDRP 69058732
                           06B70  9644+         USING CCWTADR,R9,RB                                   @D32XDRP 69074032
007A78 901F 9010           06B80  9645+DEFIXCOE STM   R1,RF,CCWERA        SAVE REGISTERS            @D32XDRP 69074132
007A7C 58B0 08C8           008C8  9646+         L     RB,ACCWT2          LOAD 2ND BASE REGISTER    @D32XDRP 69074232
007A80 4160 095D           0095D  9647+         LA    R6,TRTFIX          INDICATE PMGR POSTED      @DM12800 69074432
007A84 4570 9F28           07A98  9648+         BAL   R7,DEFIXSUB        FREE PAGES CONDIT.        @DM12800 69074632
007A88 981F 9010           06B80  9649+         LM    R1,RF,CCWERA       RESTORE REGISTERS         @DM12800 69074832
007A8C 07F8                       9650+         BR    R8                 RETURN                    @DM12800 69075032
                           07A8E  9651+DEFIXCON EQU   *                                            @DM12800 69075232
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007A8E 4160 0953            00953  9652+         LA    R6,TRTPFG           IND. PAGE TO BE FREED       @DM12800 69075632
007A92 4570 9F28            07A98  9653+         BAL   R7,DEFIXSUB         FREE PAGES COND.            @DM12800 69076632
007A96 07F2                        9654+         BR    R2                  RETURN                      @DM12800 69076832
007A98 9500 6000      00000        9655+DEFIXSUB CLI   D0(R6),ZERO         PMGR POSTED / PAGE FREE     @DM12800 69077032
007A9C 0777                        9656+         BNER  R7                  YES,RETURN                  @DM12800 69077232
007A9E 4810 08C6            008C6  9657+         LH    R1,LOWFXPTR         SAVED CCB-C-BL              @DM12800 69077432
007AA2 1211                        9658+         LTR   R1,R1               AVAILABLE                   @DM12800 69077632
007AA4 0787                        9659+         BZR   R7                  NO,RETURN                   @DM12800 69077832
007AA6 5A10 B530            080A0  9660+         A     R1,SAVCCBQ          POINT TO COPIED CCB         @DM12800 69078032
007AAA 45D0 988C            073FC  9661+         BAL   RD,UNFIX            FREE PAGES                  @DM12800 69078232
007AAE D201 08C6 1042 008C6 00042  9662+         MVC   LOWFXPTR,CCBBPT     UPDATE LOWFXPTR             @DM12800 69078432
007AB4 47F0 9F28      07A98        9663+         B     DEFIXSUB            TRY NEXT ONE                @DM12800 69078632
                                   9664+*************************************************************  @D32XDRP 69112032
                                   9665+*                                                              @D32XDRP 69116032
                                   9666+*      DEFIXALL  SUBROUTINE                                    @D32XDRP 69120032
                                   9667+*                                                              @D32XDRP 69124032
                                   9668+*************************************************************  @D32XDRP 69128032
                                   9669+*                                                              @D32XDRP 69132032
                                   9670+*      FUNCTION:                                               @D32XDRP 69136032
                                   9671+*        FREES ALL DATA AREA PAGES ASSOCIATED WITH COPIED      @D32XDRP 69140032
                                   9672+*        CCB'S ON SAVED-CCB-COPY-BLOCK-QUEUE.                  @D32XDRP 69144032
                                   9673+*                                                              @D32XDRP 69148032
                                   9674+*      ENTRY POINTS:                                           @D32XDRP 69152032
                                   9675+*        DEFIXALL  -  FROM GETREAL, PFIX. AND LOAD LEVELER     @D32XDRP 69156032
                                   9676+*                                                              @D32XDRP 69156132
                                   9677+*      INPUT:                                                  @D32XDRP 69156232
                                   9678+*        LOWFXPTR - DISPLACEMENT OF CCB C BL FROM BASE OF      @D32XDRP 69156332
                                   9679+*                   - SAVED-CCB-COPY-BLOCK-QUEUE               @D32XDRP 69156432
                                   9680+*        R8       - RETURN ADDRESS                             @D32XDRP 69156532
                                   9681+*                                                              @D32XDRP 69156632
                                   9682+*      OUTPUT:                                                 @D32XDRP 69156732
                                   9683+*        LOWFXPTR - DISPLACEMENT FROM SAVED-CCB-C-BL-Q         @D32XDRP 69156832
                                   9684+*                   - BASE OF NEXT HIGER CCB C BL IN THE QUEUE @D32XDRP 69156932
                                   9685+*        R8       - UNCHANGED                                  @D32XDRP 69157032
                                   9686+*                                                              @D32XDRP 69157132
                                   9687+*      EXITS NORMAL:                                           @D32XDRP 69157232
                                   9688+*        RETURN ADDRESS IN R2                                  @D32XDRP 69157332
                                   9689+*                                                              @D32XDRP 69157432
                                   9690+*      EXITS ERROR:                                            @D32XDRP 69157532
                                   9691+*        NONE                                                  @D32XDRP 69157632
                                   9692+*                                                              @D32XDRP 69157732
                                   9693+*      EXTERNAL REFERENCES:                                    @D32XDRP 69157832
                                   9694+*        NONE                                                  @D32XDRP 69157932
                                   9695+*                                                              @D32XDRP 69158032
                                   9696+*      SUBROUTINES:                                            @D32XDRP 69158132
                                   9697+*        UNFIX                                                 @D32XDRP 69158232
                                   9698+*                                                              @D32XDRP 69158332
                                   9699+*      REGISTER CHANGED:                                       @D32XDRP 69158432
                                   9700+*        R1, R3, R4, R5, R6, RC, RD, RE                        @D32XDRP 69158532
                                   9701+*                                                              @D32XDRP 69158632
                                   9702+*************************************************************  @D32XDRP 69158732
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007AB8 5890 08C8            008C8  9703+DEFIXALL L     R9,ACCWT2            LOAD BASE ADDRESS          @DA09070 69159734
                                   9704+         DROP  R9,RB                DROP BASE REGS             @DA09070 69159834
                            07B70  9705+         USING CCWTADR+X'1000',R9                              @DA09070 69160034
007ABC 901F 94EC            0805C  9706+         STM   R1,RF,CCWERA1        SAVE REGISTERS             @DA09070 69160734
007AC0 18B9                        9707+         LR    RB,R9                LOAD 2ND BASE INTO RB      @DA09070 69163734
007AC2 5890 077C            0077C  9708+         L     R9,ACCWT             RELOAD 1ST BASE            @DA09070 69166734
                                   9709+         DROP  R9                                              @DA09070 69167734
                            06B70  9710+         USING CCWTADR,R9,RB                                   @DA09070 69169734
007AC6 4810 08C6            008C6  9711+         LH    R1,LOWFXPTR                                     @D32XDRP 69180032
007ACA 5A10 B530            080A0  9712+DEFIXAL1 A     R1,SAVCCBQ           POINT TO COPIED CCB        @D32XDRP 69184032
007ACE 45D0 988C            073FC  9713+         BAL   RD,UNFIX             FREE PAGES                 @D32XDRP 69188032
007AD2 4810 1042            00042  9714+         LH    R1,CCBBPT            MORE CCB'S ON              @D32XDRP 69192032
007AD6 1211                        9715+         LTR   R1,R1                SAVED QUEUE                @D32XDRP 69196032
007AD8 4770 9F5A      07ACA        9716+         BNZ   DEFIXAL1             YES,CONTINUE TO FREE       @D32XDRP 69200032
007ADC 4010 08C6            008C6  9717+         STH   R1,LOWFXPTR          UPDATE   LOWFXPTR          @D32XDRP 69200332
007AE0 981F B4EC            0805C  9718+         LM    R1,RF,CCWERA1        RESTORE REGISTERS          @DA09070 69200634
007AE4 07F8                        9719+         BR    R8                   RETURN                     @D32XDRP 69205032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9721+************************************************************ @D32XDRP 69208032
                                  9722+*                                                              @D32XDRP 69209032
                                  9723+*      DELREPA ROUTINE                                         @D32XDRP 69210032
                                  9724+*                                                              @D32XDRP 69211032
                                  9725+************************************************************ @D32XDRP 69212032
                                  9726+*                                                              @D32XDRP 69213032
                                  9727+*      FUNCTION:                                               @D32XDRP 69214032
                                  9728+*        DELETES ALL REPLICAS BELONGING TO A PARTITION         @D32XDRP 69215032
                                  9729+*                                                              @D32XDRP 69216032
                                  9730+*      ENTRY POINT:                                            @D32XDRP 69217032
                                  9731+*        DELREPA  -  FROM INPAGE AND LOAD LEVELER              @D32XDRP 69218032
                                  9732+*                                                              @D32XDRP 69219032
                                  9733+*      INPUT:                                                  @D32XDRP 69220032
                                  9734+*        R8  -  RETURN ADDRESS                                 @D32XDRP 69221032
                                  9735+*        R7  -  POINTS TO PARTITIONS REPLICA QUEUE             @D32XDRP 69222032
                                  9736+*        R9  -  FIRST BASE REGISTER                            @D32XDRP 69223032
                                  9737+*                                                              @D32XDRP 69224032
                                  9738+*      OUTPUT:                                                 @D32XDRP 69225032
                                  9739+*        ALL REGISTER UNCHANGED                                @D32XDRP 69226032
                                  9740+*                                                              @D32XDRP 69227032
                                  9741+*      EXITS NORMAL:                                           @D32XDRP 69228032
                                  9742+*        RETURN ADDRESS IN R2                                  @D32XDRP 69229032
                                  9743+*                                                              @D32XDRP 69230032
                                  9744+*      SUBROUTINES:                                            @D32XDRP 69231032
                                  9745+*        DELREPL                                               @D32XDRP 69232032
                                  9746+*                                                              @D32XDRP 69233032
                                  9747+************************************************************ @D32XDRP 69234032
007AE6 901F 9010          06B80   9748+DELREPA  STM   R1,RF,CCWERA        SAVE REGISTER             @D32XDRP 69235032
007AEA 58B0 08C8          008C8   9749+         L     RB,ACCWT2           LOAD 2ND BASE REGISTER    @D32XDRP 69236032
007AEE 1BAA                       9750+         SR    RA,RA               POINT TO BASE (DISPL=0)   @D32XDRP 69237032
007AF0 488A 7042          00042   9751+DELREPA0 LH    R8,REPBPT-REPLICA(RA,R7)  LOAD BACKW. POINTER @D32XDRP 69238032
007AF4 12A8                       9752+         LTR   RA,R8               SAVE AND TEST             @D32XDRP 69239032
007AF6 4780 9F94    07B04         9753+         BZ    DELREPA1            BRANCH IF NO PREVIOUS ELEM. @D32XDRP 69240032
007AFA 1A87                       9754+         AR    R8,R7               POINT TO REPLICA          @D32XDRP 69241032
007AFC 4520 B3C2          07F32   9755+         BAL   R2,DELREPL          DELETE REPLICA            @D32XDRP 69242032
007B00 47F0 9F80    07AF0         9756+         B     DELREPA0            CONT. SCAN THRU REPL. QUEUE @D32XDRP 69243032
007B04 981F 9010          06B80   9757+DELREPA1 LM    R1,RF,CCWERA        RESTORE REGISTERS         @D32XDRP 69244032
007B08 07F8                       9758+         BR    R8                  RETURN TO CALLER          @D32XDRP 69245032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9760+* NEXT ROUTINE HAS BEEN MOVED HERE FOR ADDRESSABILTY REASONS   @DA10463 69257034
                                  9761+*        PARAMETER: REG 5 CONTAINS RETURN ADDRESS                    69262034
                                  9762+*        FUNCTION:  SELECTS TASK WHICH HAS TO BE SET BACK OR         69267034
                                  9763+*                   CANCELED, IF CNTCOM=0 AND TFIX REQUEST PENDING.  69272034
                                  9764+*        CCWRSVC WILL BE CALLED FROM   DEQUX,CSWTRANS.         @D32XDRP 69277034
                                  9765+*        AND WILL CALL                 SETBACK,RELALL,DELENT,CORFIXIN   69282034
                                  9766+*        REGISTER USAGE  R1,R2,R4,R5,R8,R9,RA,RD,RF                     69287034


007B0A 901F 9010            06B80  9768+CCWRSVC  STM   R1,RF,CCWERA .      SAVE REGISTERS                      69297034
007B0E 58B0 08C8            008C8  9769+         L     RB,ACCWT2           LOAD 2ND BASE REGISTER      @D32XDRP 69307034
                            06B70  9770+         USING CCWTADR,R9,RB                                   @D32XDRP 69312034
                                   9771+         DROP  RF                                                     69347034
                            00000  9772+         USING CCWTCB,RD                                              69352034
007B12 BFDF 9004            06B74  9773+CCWRSV0  ICM   RD,M15,AUTCB .      POINT TO FIRST TCB IN QUEUE @DF00917 69357034
007B16 4780 9FF6      07B66        9774+         BZ    CCWRSV3 .          RETURN IF NO TRANSL. PRESENT @DF00917 69362034
007B1A 1BFF                        9775+         SR    RF,RF .             CLEAR REGISTER                   69367034
007B1C 47F0 9FB8      07B28        9776+         B     CCWRSV11                                             69372034
007B20 BFDF D080            00080  9777+CCWRSV1  ICM   RD,M15,TCBPTR .     POINT TO NEXT TCB IN QUEUE       69377034
007B24 4780 9FFC      07B6C        9778+         BZ    CCWRSV4 .           PREPARE FOR CANCEL               69382034
007B28 BF1F D014            00014  9779+CCWRSV11 ICM   R1,M15,TCBACCB .    POINT TO CCB COPY BLOCK          69387034
007B2C 4780 9FB0      07B20        9780+         BZ    CCWRSV1 .           BRANCH IF NO CCB PRESENT         69392034
007B30 9140 101A      0001A        9781+         TM    CCBFLAG,TTFIX .     ANY PAGES FIXED?                 69397034
007B34 47E0 9FB0      07B20        9782+         BNO   CCWRSV1 .           NO                               69402034
007B38 12FF                        9783+         LTR   RF,RF .             ANOTHER TCB WITH PAGES FIXED FOUND 69407034
                                   9784+*                                  BEFORE?                          69412034
007B3A 4770 9FD4      07B44        9785+         BNZ   CCWRSV2 .           YES                              69417034
007B3E 18FD                        9786+         LR    RF,RD .             SAVE ADDRESS OF TCB IN RF        69422034
007B40 47F0 9FB0      07B20        9787+         B     CCWRSV1 .           SEARCH FOR NEXT TCB WITH FIXED PAGES 69462034
                                   9788+         DROP  RD                  DROP TCB BASE               @DM16471 69462134
                            00000  9789+         USING CCWTCB,RF                                              69462534
                            06B70  9790+         USING CCWTADR,R9,RB                                   @D32XDRP 69462734
                            07B44  9791+CCWRSV2  EQU   *                                                      69462934
007B44 4540 9DBE            0792E  9792+         BAL   R4,DELENT .         DELETE PGQU ENTRY                69463034
007B48 4550 B038            07BA8  9793+         BAL   R5,CORFIXIN .       CORRECT FIX-INFORMATION          69463134
007B4C 4550 B0B8            07C28  9794+         BAL   R5,SETBACK .        SET TASK BACK TO RESTART CCWTRANSL. 69463234
007B50 926D A000      00000        9795+         MVI   PIBFLG,PFGBND .     SET TASK WAITING FOR             69463334
007B54 9200 0953      00953        9796+         MVI   TRTPFG,ZERO .       NEXT FREED PAGE                  69463434
007B58 12FD                        9797+         LTR   RF,RD .             SAVE ADDR OF TCB, END OF QUEUE?  69463534
007B5A 4780 9FF6      07B66        9798+         BZ    CCWRSV3 .           YES, RETURN                      69463634
007B5E 9500 095D      0095D        9799+         CLI   TRTFIX,ZERO .       TFIX POSTED?                     69463734
007B62 4780 9FB0      07B20        9800+         BE    CCWRSV1 .           NO, SEARCH FOR NEXT TCB          69463834
                            07B66  9801+CCWRSV3  EQU   *                                                      69463934
007B66 981F 9010            06B80  9802+         LM    R1,RF,CCWERA .      RELOAD REGISTERS                 69464034
007B6A 07F5                        9803+         BR    R5 .                RETURN                           69464134
007B6C 12FF                        9804+CCWRSV4  LTR   RF,RF .             IS THERE ANY TASK SELECTED?      69464234
007B6E 4780 9FF6      07B66        9805+         BZ    CCWRSV3 .           NO, RETURN                       69464334
007B72 91C0 08E4      008E4        9806+         TM    TFIXIDEN,SVC44IDN+SDAIDIDN PAGES FIXED BY OTHER SERVICES 69464434
007B76 4770 9FD4      07B44        9807+         BNZ   CCWRSV2 .           YES, SET BACK DON'T TERMINATE    69464534
007B7A 4540 9DBE            0792E  9808+         BAL   R4,DELENT .         DELETE ENTRY FROM PGQU           69464734
007B7E 4550 B038            07BA8  9809+         BAL   R5,CORFIXIN .       CORRECT FIX-INFORMATION          69464834
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007B82 5810 F014            00014  9810+         L     R1,TCBACCB .         POINT TO COPIED CCB                   69464934
007B86 4520 9BB0            07720  9811+         BAL   R2,RELALL .          RELEASE BLOCKS AND FREE               69465034
007B8A D703 F014 F014 00014 00014  9812+         XC    TCBACCB,TCBACCB .    CLEAR POINTER TO COPIED CCB           69465134
007B90 58A0 F068            00068  9813+         L     RA,SAVEREGA .        RA POINTS TO PIBADR         @D32XDRP  69465234
                            00000  9814+         USING SVEARA,R8                                                  69465334
007B94 5880 A008            00008  9815+         L     R8,PIBSAV2 .         POINT TO SYSTEM SAVE AREA             69465434
007B98 4120 9E5A            079CA  9816+         LA    R2,ERROR5 .          CHANGE PSW TO POINT                   69465534
007B9C 5020 800C            0000C  9817+         ST    R2,SVEPSW2 .         TO ERROR5 (PAGE POOL TOO SMALL)       69465634
007BA0 94FB A000      00000        9818+         NI    PIBFLG,RCOMPL .    SET TASK DISPATCHABLE                   69465734
007BA4 47F0 9FF6      07B66        9819+         B     CCWRSV3 .            RETURN                                69466334
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9821+*        PARAMETER: REG F POINTS TO ACTUAL CCWTCB                        69466634
                                  9822+*                   REG 5 CONTAINS RETURN ADDRESS                        69466734
                                  9823+*        FUNCTION:  CORRECTS FIX-INFORMATION IF LAST REQUEST WAS         69466834
                                  9824+*                   POSSIBLY A TFIX REQUEST, ENSURES THAT ALL FIXED      69466934
                                  9825+*                   PAGES WILL BE FREED LATER IN A CORRECT WAY           69467032
                                  9826+*        CORFIXIN WILL BE CALLED FROM   CCWRSVC,CCWDEACT,GETBLOCK         69468032
                                  9827+*        AND WILL CALL                  RELALL                            69469032
                                  9828+*        REGISTER USAGE  R1,R3,R5,R7,R8,RA,RC                             69470032

007BA8 58A0 F068            00068 9830+CORFIXIN L     RA,SAVEREGA .       POINT TO PIB                          69472032
007BAC 9583 A000      00000       9831+         CLI   PIBFLG,READY .      READY TO RUN ?                        69503032
007BB0 0775                       9832+         BCR   NE,R5 .             NO, RETURN FIXINF IS CORRECT          69504032
007BB2 BF1F F014            00014 9833+         ICM   R1,M15,TCBACCB .    POINT TO CCB COPY BLOCK               69505032
007BB6 0785                       9834+         BCR   Z,R5 .              RETURN IF NO CCB PRESENT              69506032
007BB8 9140 1006      00006       9835+         TM    CCBCLS,BTAM .       BTAM BIT IN CCB ON?         @DM03636  69508032
007BBC 0715                       9836+         BCR   O,R5 .              YES, RETURN                 @DM03636  69509032
007BBE BF7F F030            00030 9837+         ICM   R7,M15,FIXADDR .    ANY TFIX REQUEST ?                    69511032
007BC2 0785                       9838+         BCR   Z,R5 .              NO, RETURN                            69512032
007BC4 B137 0000            00000 9839+         LRA   R3,D0(R7) .         LOAD REAL ADDR              @D32XDRP  69513032
007BC8 4720 9E7C      079EC       9840+         BH    ERROR6 .            PAGE NOT IN CORE   ERROR    @D32XDRP  69514032
007BCC 1B88                       9841+         SR    R8,R8 .                                         @D32XDRP  69515032
007BCE 8830 000B            0000B 9842+         SRL   R3,D11 .            CALC. REAL PAGE NUMBER      @D32XDRP  69516032
007BD2 58E0 0778            00778 9843+         L     RE,APMGR .          LOAD BASE FOR TFREE         @D32XDRP  69517032
007BD6 45CE 0824            00824 9844+         BAL   RC,TFREE-PMGRADR(RE) FREE LAST FIXED PAGE       @D32XDRP  69518032
007BDA 9108 101A      0001A       9845+         TM    CCBFLAG,FASTTR      FAST-TRANSL?                @D32XDRP  69520032
007BDE 0775                       9846+         BNZR  R5                  YES, RETURN                 @D32XDRP  69521032
                                  9847+*        SET CORRESP. BIT IN FIXINF OFF IF PRESENT                       69523032
007BE0 18C3                       9848+         LR    RC,R3                                                     69524032
007BE2 50D0 F024            00024 9849+         ST    RD,DYNAREA2 .       SAVE RD                               69525032
007BE6 45A0 9536            070A6 9850+         BAL   RA,DISPLRTN .       GET BYTE AND BIT OFFSET               69526032
007BEA 58D0 F024            00024 9851+         L     RD,DYNAREA2 .       RELOAD RD                             69527032
007BEE 4130 1028            00028 9852+         LA    R3,CCBXINF .        LOAD ADDR OF FIXINF FIELD             69528032
007BF2 41A0 0018            00018 9853+         LA    RA,CCBXPTR-CCBXINF .NUMBER OF BYTES IN CCBXINF            69530032
007BF6 198A                       9854+         CR    R8,RA .             IS OFFSET IN CCBXINF                  69531032
007BF8 4740 B0A8      07C18       9855+         BL    CORFIX2 .           YES, CORRECT FIXINF                   69532032
007BFC 1B8A                       9856+         SR    R8,RA .             CALC. NEW OFFSET                      69533032
007BFE 41A0 0044            00044 9857+         LA    RA,ANB-CCWBLOCK .   NUMBER OF BYTES IN FIXINF EXT.        69534032
007C02 BF3F 1040            00040 9858+         ICM   R3,M15,CCBXPTR .    LOAD ADDR OF FIXINF EXT.              69535032
007C06 0785                       9859+CORFIX1  BCR   Z,R5 .              RETURN IF NO EXT. PRESENT             69536032
007C08 198A                       9860+         CR    R8,RA .             IS OFFSET IN THIS EXT. ?              69537032
007C0A 4740 B0A8      07C18       9861+         BL    CORFIX2 .           YES, CORRECT FIXINF                   69538032
007C0E 1B8A                       9862+         SR    R8,RA .             CALC. NEW OFFSET                      69539032
007C10 BF3F 3044            00044 9863+         ICM   R3,M15,ANB-CCWBLOCK(R3) LOAD ADDR OF NEXT FIXINF EXT.   69540032
007C14 47F0 B096      07C06       9864+         B     CORFIX1 .           CONTINUE SEARCH                       69541032
                            07C18 9865+CORFIX2  EQU   *                                                       69542032
007C18 1A83                       9866+         AR    R8,R3 .             GET BYTE ADDR IN FIXINF               69543032
007C1A 44C0 9550            070C0 9867+         EX    RC,DISPLOI .        ENSURE THAT BIT IS ONE      @DM02350  69544032
007C1E 44C0 B0B4            07C24 9868+         EX    RC,CORBIT .         RESET BIT TO ZERO                     69545032
007C22 07F5                       9869+         BR    R5 .                RETURN                                69546032
007C24 9700 8000      00000       9870+CORBIT   XI    D0(R8),ZERO                                               69547032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9872+*        PARAMETER: REG F POINTS TO CCWTCB OF TASK TO BE SET BACK       69550032
                                  9873+*                   REG 5 CONTAINS RETURN ADDRESS                       69553032
                                  9874+*                   ON RETURN RA POINTS TO PIB OF TASK JUST SET BACK    69554032
                                  9875+*        FUNCTION:  IT WILL RELEASE ALL BLOCKS BELONGING TO A TASK      69555032
                                  9876+*                   AND SET THIS TASK BACK TO RESTART TRANSL.           69556032
                                  9877+*        SETBACK WILL BE CALLED FROM   GETBLOCK,CCWTRSVC,CCWDEACT       69557032
                                  9878+*        AND WILL CALL                 RELALL                            69558032
                                  9879+*        REGISTER USAGE  R1,R2,R4,R5,R8,R9,RA,RF                         69559032


                            06B70  9881+         USING CCWTADR,R9,RB                                 @D32XDRP 69562032
                            07C28  9882+SETBACK  EQU   *                                                      69564032
007C28 58A0 F068            00068  9883+         L     RA,SAVEREGA .       RA POINTS TO PIB                    69565032
                            00000  9884+         USING SVEARA,R8                                               69566032
007C2C 5880 A008            00008  9885+         L     R8,PIBSAV2 .        POINT TO SYSTEM SAVE AREA           69567032
007C30 BF1F F014            00014  9886+         ICM   R1,M15,TCBACCB .    POINT TO COPIED CCB                 69568032
007C34 0785                        9887+         BCR   Z,R5 .              NO CCB PRESENT, RETURN              69569032
007C36 5820 101C            0001C  9888+         L     R2,CCBVA .          LOAD ADDR OF VIRT. CCB              69570032
007C3A 5020 8030            00030  9889+         ST    R2,SVER01 .         AND STORE IT IN SYST. SAVE AREA     69571032
007C3E 50F0 8028            00028  9890+         ST    RF,SVER0F .         STORE CORRECT RF IN SYSTEM SAVE AREA 69572032
007C42 5090 8010            00010  9891+         ST    R9,SVER09           SAVE CCW TR BASE REG        @DA10154 69572234
007C46 50B0 8018            00018  9892+         ST    RB,SVER0B           SAVE CCW TR 2ND BASE REG    @DA10154 69572634
007C4A 4120 91E0            06D50  9893+         LA    R2,CCWTR01B         LOAD RESTART ADDR FOR BTAM  @D32XDRP 69574032
007C4E 9140 1006      00006        9894+         TM    CCBCLS,BTAM         REQUEST FROM BTAM           @D32XDRP 69575032
007C52 4710 B0EA      07C5A        9895+         BO    SETBACK1            NO, BRANCH                  @D32XDRP 69576032
007C56 4120 91DC            06D4C  9896+         LA    R2,CCWREST .        LOAD ADDR TO RESTART CCWTRANS..     69580032
007C5A 5020 800C            0000C  9897+SETBACK1 ST    R2,SVEPSW2 .        SET UP PSW ADDRESS          @D32XDRP 69584032
007C5E 184D                        9898+         LR    R4,RD .             SAVE                                69600332
007C60 9045 F024            00024  9899+         STM   R4,R5,DYNAREA2 .    RD,R5                               69600432
007C64 4520 9BB0            07720  9900+         BAL   R2,RELALL .         RELEASE ALL BLOCKS AND FREE         69600532
007C68 9845 F024            00024  9901+         LM    R4,R5,DYNAREA2 .    RELOAD SAVED                        69600632
007C6C 18D4                        9902+         LR    RD,R4 .             RD,R5                               69600732
007C6E 9200 F000      00000        9903+         MVI   TCBFLAG,ZERO .      SET UP CORRECT CONT. OF TCB         69600832
007C72 D73B F00C F00C 0000C 0000C  9904+         XC    LINEPTR(SAVEREG2-LINEPTR),LINEPTR FOR RESTART       69600932
007C78 07F5                        9905+         BR    R5 .                RETURN                              69601032
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 9907+************************************************************ @D32XDRP 69601632
                                 9908+*                                                            @D32XDRP 69611632
                                 9909+*       FAST-TRANSLATE    MAIN ROUTINE                     @D32XDRP 69621632
                                 9910+*                                                            @D32XDRP 69631632
                                 9911+************************************************************ @D32XDRP 69641632
                                 9912+*     FUNCTION:                                              @D32XDRP 70053532
                                 9913+*       THE FUNCTION DEPENDS ON THE SETTING OF BOTH THE      @D32XDRP 70054032
                                 9914+*       TTFIX- AND FXREQD-BIT IN THE CCBFLAG OF THE COPIED   @D32XDRP 70054532
                                 9915+*       CCB.                                                 @D32XDRP 70055032
                                 9916+*                                                            @D32XDRP 70055532
                                 9917+*       TRANSLATION OF DATA AREA ADDRESSES AND FIXING OF THE @D32XDRP 70056032
                                 9918+*       CORRESPONDING PAGES IS DONE ONLY WHEN BOTH BITS ARE  @D32XDRP 70056532
                                 9919+*       'ONE'. OTHERWISE THE 'NULL-TRANSLATE' QUICK PATH     @D32XDRP 70057032
                                 9920+*       IS TAKEN.                                            @D32XDRP 70057532
                                 9921+*                                                            @D32XDRP 70058032
                                 9922+*       THE CCB COPY BLOCK IS DEQUEUED FROM THE 'SAVED'      @D32XDRP 70058532
                                 9923+*       QUEUE AND ENQUEUED IN THE 'ACTIVE' QUEUE (THE REGULAR@D32XDRP 70059032
                                 9924+*       CCB QUEUE) ANYWAY.                                   @D32XDRP 70059532
                                 9925+*       TO INDICATE THIS THE SAVEDQ-BIT IN THE CCBFLAG IS    @D32XDRP 70060032
                                 9926+*       RESET.                                               @D32XDRP 70060532
                                 9927+*                                                            @D32XDRP 70061032
                                 9928+*     ENTRY POINTS:                                          @D32XDRP 70061532
                                 9929+*       FASTTRNS - FROM TESTREPL. IF MATCHING REPLICA FOUND  @D32XDRP 70062032
                                 9930+*                                                            @D32XDRP 70062532
                                 9931+*     INPUT:                                                 @D32XDRP 70063032
                                 9932+*       R1 - POINTS TO COPIED CCB                            @D32XDRP 70063532
                                 9933+*       RF - POINTS TO TCB                                   @D32XDRP 70064032
                                 9934+*       R9 - FIRST BASE ADDRESS                              @D32XDRP 70064532
                                 9935+*       RB - SECOND BASE ADDRESS                             @D32XDRP 70065032
                                 9936+*       CCBFLAG-BITS:                                        @D32XDRP 70065532
                                 9937+*         SAVEDQ - ON      (CCB RESIDES ON 'SAVED' QUEUE)    @D32XDRP 70066032
                                 9938+*         TTFIX  - ON/OFF  (DATA AREAS ENVOLVED OR NOT)      @D32XDRP 70066532
                                 9939+*         FXREQD - ON/OFF  (DATA AREA PAGES NOT FIXED/FIXED) @D32XDRP 70067032
                                 9940+*                                                            @D32XDRP 70067532
                                 9941+*     OUTPUT:                                                @D32XDRP 70068032
                                 9942+*       R1 - UNCHANGED                                       @D32XDRP 70068532
                                 9943+*       RF - UNCHANGED                                       @D32XDRP 70069032
                                 9944+*       R9 - UNCHANGED                                       @D32XDRP 70069532
                                 9945+*       RB - UNCHANGED                                       @D32XDRP 70070032
                                 9946+*       CCBFLAG-BITS:                                        @D32XDRP 70070532
                                 9947+*         SAVEDQ - OFF       (CCB RESIDES ON 'ACTIVE' QUEUE)   @D32XDRP 70071032
                                 9948+*         TTFIX  - UNCHANGED (DATA AREAS ENVOLVED OR NOT)    @D32XDRP 70071532
                                 9949+*         FXREQD - OFF       (DATA AREA PAGES FIXED)         @D32XDRP 70072032
                                 9950+*                                                            @D32XDRP 70072532
                                 9951+*     EXTERNAL REFERENCES:                                   @D32XDRP 70073032
                                 9952+*       TFIX     - ROUTINE TO FIX A PAGE                     @D32XDRP 70073532
                                 9953+*                                                            @D32XDRP 70074032
                                 9954+*     EXITS NORMAL:                                          @D32XDRP 70074532
                                 9955+*       CCWTR31B - IF PAGES HAVE BEEN FIXED                  @D32XDRP 70075032
                                 9956+*       CCWTR32  - IF NO PAGES HAVE BEEN FIXED               @D32XDRP 70075532
                                 9957+*                                                            @D32XDRP 70076032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  9958+*      EXITS ERROR:                                                  @D32XDRP 70076532
                                  9959+*        NONE                                                        @D32XDRP 70077032
                                  9960+*                                                                    @D32XDRP 70077532
                                  9961+*      SUBROUTINES:                                                  @D32XDRP 70078032
                                  9962+*        DEQUEU                                                      @D32XDRP 70078532
                                  9963+*                                                                    @D32XDRP 70079032
                                  9964+*      REGISTERS CHANGED:                                            @D32XDRP 70079532
                                  9965+*        R2, R3, R4, R5, R7, RC, RD, RE                              @D32XDRP 70080032
                                  9966+*                                                                    @D32XDRP 70080532
                                  9967+*      NOTES:                                                        @D32XDRP 70081032
                                  9968+*        THE DIDAL IS USED FOR FIXING PAGES, THE FIXINF              @D32XDRP 70081532
                                  9969+*        BITSTRING IS SIMPLY NOT CONSIDERED AT ALL                   @D32XDRP 70082032
                                  9970+*                                                                    @D32XDRP 70082532
                                  9971+*      EXTERNAL REFERENCES:                                          @D32XDRP 70083032
                                  9972+*        NONE                                                        @D32XDRP 70083532
                                  9973+*                                                                    @D32XDRP 70084032
                                  9974+*      EXITS NORMAL:                                                 @D32XDRP 70084532
                                  9975+*        CCWTR31B - IF FAST TRANSLATION (DATA AREAS NOT FIXED)       @D32XDRP 70085032
                                  9976+*        CCWTR32  - IF NULL-TRANSLATION (DATA AREAS FIXED)           @D32XDRP 70085532
                                  9977+*                                                                    @D32XDRP 70086032
                                  9978+*      EXITS ERROR:                                                  @D32XDRP 70086532
                                  9979+*        NONE                                                        @D32XDRP 70087032
                                  9980+*                                                                    @D32XDRP 70087532
                                  9981+*      SUBROUTINES:                                                  @D32XDRP 70088032
                                  9982+*        DEQUEU, ENQTOF                                              @D32XDRP 70088532
                                  9983+*                                                                    @D32XDRP 70089032
                                  9984+*      REGISTERS CHANGED:                                            @D32XDRP 70089532
                                  9985+*        R1, R3, R4, R5, R6, R7, RC, RD                              @D32XDRP 70090032
                                  9986+*                                                                    @D32XDRP 70090532
                                  9987+*************************************************************       @D32XDRP 70091032
                          06B70   9988+          USING CCWTADR,R9,RB                                        @D32XDRP 70091232
007C7A 94FB 101A        0001A     9989+FASTTRNS NI    CCBFLAG,XFF-SAVEDQ  RESET SAVEDQ-BIT                  @D32XDRP 70091532
007C7E 1831                       9990+          LR    R3,R1               DEQUEUE                           @D32XDRP 70092032
007C80 5870 B530          080A0   9991+          L     R7,SAVCCBQ          CCB COPY BLOCK                    @D32XDRP 70092532
007C84 1B37                       9992+          SR    R3,R7               FROM                              @D32XDRP 70093032
007C86 45D0 B4D8          08048   9993+          BAL   RD,DEQUEU           SAVED-CCB-COPY-BL-Q               @D32XDRP 70100032
007C8A 4930 08C6          008C6   9994+          CH    R3,LOWFXPTR         LOWFXPTR ATTACHED ?               @D32XDRP 70100832
007C8E 4770 B128        07C98     9995+          BNE   FASTTR0             NO, BRANCH                        @D32XDRP 70101632
007C92 D201 08C6 1042   008C6 00042 9996+          MVC   LOWFXPTR,CCBBPT     UPDATE LOWFXPTR                   @D32XDRP 70102432
                          07C98   9997+FASTTR0  EQU   *                                                     @D32XDRP 70103232
007C98 D203 1044 9000   00044 06B70  9998+          MVC   CCBNEXT,ACCBB       ENQUEUE                           @D32XDRP 70104032
007C9E 5010 9000          06B70   9999+          ST    R1,ACCBB            IN ACTIVE-CCB-COPY-BL-Q           @D32XDRP 70108032
007CA2 5010 F014          00014 10000+          ST    R1,TCBACCB          SAVE ADDR OF CCB C FOR CANC       @D32XDRP 70112032
007CA6 9608 101A        0001A   10001+          OI    CCBFLAG,FASTTR      INDICATE FASTTR IN PROCESS        @D32XDRP 70114032
007CAA 9142 101A        0001A   10002+          TM    CCBFLAG,TTFIX+FXREQD  ARE DATA AREA PAGES,              @D32XDRP 70116032
                                10003+*                                   IF ANY, FIXED?                    @D32XDRP 70120032
007CAE 47E0 93F2        06F62   10004+          BNO   CCWTR32             YES,NULL-TRANSLATE                @DM12800 70124032
007CB2 94FD 101A        0001A   10005+          NI    CCBFLAG,XFF-FXREQD  INDICATE DATA AREA PAGES FIX@D32XDRP 70136532
007CB6 5840 103C          0003C 10006+          L     R4,CCBRCB           ACCESS REPLICA                    @D32XDRP 70137032
                          00000 10007+          USING REPLICA,R4          ESTABLISH ADDRESSABILITY          @D32XDRP 70137532
007CBA 5840 4010          00010 10008+          L     R4,REPDIDAL         LOAD POINTER TO DIDAL             @D32XDRP 70138032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007CBE 58E0 0778            00778 10009+         L     RE,APMGR             LOAD BASE FOR TFIX          @D32XDRP 70138532
                            00000 10010+         USING DIDADW,R4            ESTABLISH ADDRESSABILITY    @D32XDRP 70139032
007CC2 91FF 4000      00000       10011+FASTTR1  TM    DIDADW,EOB           END OF DIDAL?               @D32XDRP 70139532
007CC6 4710 93E6      06F56       10012+         BO    CCWTR31B             YES, TERMINATE              @D32XDRP 70140032
007CCA 4780 B162      07CD2       10013+         BZ    FASTTR2              CONTINUATION?               @D32XDRP 70140532
007CCE 5840 4000            00000 10014+         L     R4,DIDA1             YES, POINT TO NEXT DIDA DWOR@D32XDRP 70141032
007CD2 5820 4000            00000 10015+FASTTR2  L     R2,DIDA1             LOAD ADDRESS TO BE FIXED    @D32XDRP 70141532
007CD6 5850 4004            00004 10016+         L     R5,DIDA2             POINT R5 TO LOCATION FOR    @D32XDRP 70142032
                                  10017+*                                   REAL ADDRESS                @D32XDRP 70142532
007CDA 1255                       10018+         LTR   R5,R5                PAGE ALREADY FIXED?         @D32XDRP 70143032
007CDC 4740 B182      07CF2       10019+         BM    FASTTR3              YES, DON'T FIX IT AGAIN     @D32XDRP 70143532
007CE0 5020 F030            00030 10020+         ST    R2,FIXADDR           SAVE ADDRESS TO BE FIXED    @D32XDRP 70156832
007CE4 45CE 07A6            007A6 10021+         BAL   RC,TFIX-PMGRADR(RE)  FIX PAGE                    @D32XDRP 70157232
007CE8 D703 F030 F030 00030 00030 10022+         XC    FIXADDR,FIXADDR      CLEAR FIX INDICAT.          @D32XDRP 70157432
007CEE 9601 4004      00004       10023+         OI    DIDA2,NOWFXD         SHOW IT IS FIXED NOW        @D32XDRP 70157632
007CF2 B172 0000            00000 10024+FASTTR3  LRA   R7,D0(R2)            LOAD REAL ADDRESS           @D32XDRP 70158032
007CF6 BE77 5001            00001 10025+         STCM  R7,M7,D1(R5)         REPL. VIRT. ADDR B REAL ADDR@D32XDRP 70158432
007CFA 4144 0008            00008 10026+         LA    R4,D8(R4)            POINT TO NEXT DIDA DWORD    @D32XDRP 70158832
007CFE 47F0 B152      07CC2       10027+         B     FASTTR1              LOOP THRU WHOLE DIDA        @D32XDRP 70159232
                                  10028+         DROP  R4                                           @D32XDRP 70159632
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 10030+************************************************************ @D32XDRP 70162432
                                 10031+*                                                            @D32XDRP 70162832
                                 10032+*        TEST FOR MATCHING REPLICA   ROUTINE                 @D32XDRP 70163232
                                 10033+*                                                            @D32XDRP 70163632
                                 10034+************************************************************ @D32XDRP 70164032
                                 10035+*                                                            @D32XDRP 70164432
                                 10036+*      FUNCTION:                                             @D32XDRP 70164832
                                 10037+*        THE REPLICA QUEUE OF THE REQUESTOR'S PARTITION IS   @D32XDRP 70165232
                                 10038+*        SEARCHED FOR A MACHTING REPLICA.                    @D32XDRP 70165632
                                 10039+*                                                            @D32XDRP 70166032
                                 10040+*        WHAT IS TRIED IS TO GET SUCCESSIVE MATCHES ON:      @D32XDRP 70166432
                                 10041+*         1) VIRTUAL CCB ADDRESS                             @D32XDRP 70166832
                                 10042+*         2) VIRTUAL CCB (EXCEPT FOR THE FIRST 6 BYTES)      @D32XDRP 70167232
                                 10043+*         3) VIRTUAL CCW-STRING                              @D32XDRP 70167632
                                 10044+*        IF UNSUCCESSFUL, THE NEXT REPLICA IN THE QUEUE IS   @D32XDRP 70168032
                                 10045+*        TRIED UNTIL A) MACHTING REPLICA IS FOUND, OR        @D32XDRP 70168432
                                 10046+*                     B) WHOLE QUEUE IS SCANNED WITHOUT      @D32XDRP 70168832
                                 10047+*                        SUCCESS                             @D32XDRP 70169232
                                 10048+*                                                            @D32XDRP 70169632
                                 10049+*        THE FOLLOWING ACTIONS ARE TAKEN:                    @D32XDRP 70170032
                                 10050+*         A) 1. MATCHING REPLICA IS MOVED TO THE TOP OF THE Q. @D32XDRP 70170432
                                 10051+*               2. TIMESTAMP IS GIVEN                        @D32XDRP 70170832
                                 10052+*               3. R1 IS POINTED AT THE COPIED CCB           @D32XDRP 70171232
                                 10053+*               4. THE SAVEDQ-BIT IN THE CCBFLAG IS TESTED:  @D32XDRP 70171632
                                 10054+*                  IF 1- CONTROL IS PASSED TO THE FASTTRNS ROUT. @D32XDRP 70172032
                                 10055+*                  IF 0- R1 IS AGAIN POINTED AT THE VIRTUAL CCB  @D32XDRP 70172432
                                 10056+*                        AND CONTROL IS RETURNED TO THE REGULAR  @D32XDRP 70172832
                                 10057+*                        CCW-TRANSLATE ROUTINE CCWTRANS          @D32XDRP 70173232
                                 10058+*          B) 1. IN THE TCB THE REPLICA CREATION FLAG (RFLAG)  @D32XDRP 70173632
                                 10059+*                AND THE 1ST CCW SWITCH (CCW1SW) ARE SET)      @D32XDRP 70174032
                                 10060+*             2. THE NUMBER OF FREE DIDA WORDS (DIDALCNT)      @D32XDRP 70174432
                                 10061+*                IS INITIALIZED TO ONE                        @D32XDRP 70174832
                                 10062+*             3. CONTROL IS GIVEN BACK TO CCWTRANS            @D32XDRP 70175232
                                 10063+*                                                            @D32XDRP 70175632
                                 10064+*      ENTRY POINTS:                                         @D32XDRP 70176032
                                 10065+*        TESTREPL - FROM CCWTRANS FOR NON-BTAM REQUESTS      @D32XDRP 70176432
                                 10066+*                                                            @D32XDRP 70176832
                                 10067+*      INPUT:                                                @D32XDRP 70177232
                                 10068+*        R1 - POINTS TO VIRTUAL CCB                          @D32XDRP 70177632
                                 10069+*        R8 - RETURN ADDRESS                                 @D32XDRP 70177732
                                 10070+*        RF - POINTS TO TCB                                  @D32XDRP 70178032
                                 10071+*        R8 - RETURN ADDRESS IF NO REPLICA FOUND             @D32XDRP 70178232
                                 10072+*        R9 - FIRST BASE ADDRESS                             @D32XDRP 70178432
                                 10073+*        RB - SECOND BASE ADDRESS                            @D32XDRP 70178832
                                 10074+*        PIK                                                 @D32XDRP 70179232
                                 10075+*        TCBFLAG-BITS:                                       @D32XDRP 70179632
                                 10076+*           RFLAG  - 0                                       @D32XDRP 70180032
                                 10077+*                                                            @D32XDRP 70180832
                                 10078+*      OUTPUT:                                               @D32XDRP 70181232
                                 10079+*        R1 - POINTS TO COPIED CCB IF MATCHING REPLICA FOUND  @D32XDRP 70181632
                                 10080+*           - AND COPIED CCB RESIDING ON THE 'SAVED' QUEUE.   @D32XDRP 70182032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 10081+*          - OTHERWISE UNCHANGED                                  @D32XDRP 70182432
                                 10082+*        R8 - UNCHANGED                                           @D32XDRP 70182532
                                 10083+*        RF - UNCHANGED                                           @D32XDRP 70182832
                                 10084+*        R9 - UNCHANGED                                           @D32XDRP 70183232
                                 10085+*        RB - UNCHANGED                                           @D32XDRP 70183632
                                 10086+*        PIK - UNCHANGED                                          @D32XDRP 70184032
                                 10087+*        TCBFLAG-BITS:                                            @D32XDRP 70184432
                                 10088+*           RFLAG - 1 IF R1 POINTING TO COPIED CCB, ELSE UNCH.    @D32XDRP 70184832
                                 10089+*                                                                  @D32XDRP 70185632
                                 10090+*      EXTERNAL REFERENCES:                                        @D32XDRP 70186032
                                 10091+*        NONE                                                      @D32XDRP 70186432
                                 10092+*                                                                  @D32XDRP 70186832
                                 10093+*      EXITS NORMAL:                                               @D32XDRP 70187232
                                 10094+*        FASTTRNS - IF MATCHING REPLICA FOUND AND CCB ON         @D32XDRP 70187632
                                 10095+*                   'SAVED' Q.                                     @D32XDRP 70188032
                                 10096+*        VIA R8   - OTHERWISE                                      @D32XDRP 70188432
                                 10097+*                                                                  @D32XDRP 70188832
                                 10098+*      EXITS ERROR:                                                @D32XDRP 70189232
                                 10099+*        NONE                                                      @D32XDRP 70189632
                                 10100+*                                                                  @D32XDRP 70190032
                                 10101+*      SUBROUTINES:                                                @D32XDRP 70190432
                                 10102+*        DEQUEU, ENQTOP                                            @D32XDRP 70190832
                                 10103+*                                                                  @D32XDRP 70191232
                                 10104+*      REGISTERS CHANGED:                                          @D32XDRP 70191632
                                 10105+*        R1, R3, R4, R5, R6, R7, RC, RD                            @D32XDRP 70192032
                                 10106+*                                                                  @D32XDRP 70192432
                                 10107+*************************************************************      @D32XDRP 70192832
007D02 9504 1007       00007     10108+TESTREPL CLI   CCBLNO,SYSLOG       REQUEST FOR SYSLOG             @DZ15896 70193434
007D06 4770 B1A0       07D10     10109+         BNE   TESTREPN            NO                             @DZ15896 70193534
007D0A 9109 1006       00006     10110+         TM    CCBCLS,ONE+CCBPHYAD IS IT                          @DZ15896 70193634
007D0E 0788                      10111+         BZR   R8                  YES, NO FAST TRANSLATE         @DZ15896 70193734
007D10 9602 F000       00000     10112+TESTREPN OI    TCBFLAG,REPLCR      REPLICA SEARCH. IN PROCESS     @DZ15896 70193834
007D14 4870 067E             0067E 10113+         LH    R7,PIK              ACCESS                         @DA09058 70193934
007D18 8870 0002             00002 10114+         SRL   R7,D2               PARTITION'S                    @D32XDRP 70194034
007D1C 5A70 900C             06B7C 10115+         A     R7,RQBASE           REPLICA QUEUE                  @D32XDRP 70194134
                             00000 10116+         USING REPLICA,R4          ESTABLISH ADDRESSABILITY       @D32XDRP 70194432
007D20 1B33                      10117+         SR    R3,R3               POINT TO BASE (DISPL.=0)       @D32XDRP 70194832
007D22 47F0 B1C4       07D34     10118+         B     TESTREP2                                           @D32XDRP 70195232
007D26 4143 7000             00000 10119+TESTREP1 LA    R4,D0(R3,R7)        R4= ADDR OF MAIN REPL.BLOCK    @D32XDRP 70195432
                             07D2A 10120+TESTREPM EQU   *                                              @DM14590 70195532
007D2A 43D0 400D             0000D 10121+         IC    RD,REPLCNT          DECREASE DELETION              @D32XDRP 70195632
007D2E 06D0                      10122+         BCTR  RD,R0               COUNTER                        @D32XDRP 70195732
007D30 42D0 400D             0000D 10123+         STC   RD,REPLCNT          BY ONE                         @D32XDRP 70195832
                             07D34 10124+TESTREP2 EQU   *                                              @D32XDRP 70195932
007D34 4843 7040             00040 10125+         LH    R4,REPFPT-REPLICA(R3,R7)  LOAD FORWARD POINTER   @D32XDRP 70196032
007D38 1234                      10126+         LTR   R3,R4               SAVE AND TEST                  @D32XDRP 70196132
007D3A 4780 B29C       07E0C     10127+         BZ    TESTREP6            BRANCH IF NO NEXT ELEMENT      @D32XDRP 70196232
007D3E 1A47                      10128+         AR    R4,R7               POINT TO REPLICA               @D32XDRP 70196332
007D40 4111 0000             00000 10129+         LA    R1,D0(R1)           MAKE SURE HIGH-ORDER BYTE      @D32XDRP 70198032
                                 10130+*                                  IS ZERO                        @D32XDRP 70198432
007D44 5510 4000             00000 10131+         CL    R1,VCCBA            MATCHING VIRTUAL CCB ADDR      @D32XDRP 70198532
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007D48 4770 B1C4      07D34       10132+          BNE   TESTREP2            NO, TRY NEXT REPLICA        @D32XDRP 70198732
007D4C 43C0 400D            0000D 10133+          IC    RC,REPLCNT          INCREASE DELETION           @D32XDRP 70199632
007D50 41CC 0001            00001 10134+          LA    RC,D1(RC)           COUNTER                     @D32XDRP 70200532
007D54 42C0 400D            0000D 10135+          STC   RC,REPLCNT          BY ONE                      @D32XDRP 70201432
007D58 D506 401E 1006 0001E 00006 10136+          CLC   REPCCB+D6(L7),D6(R1)  MATCHING CCB?               @D32XDRP 70202532
007D5E 4770 B1B6      07D26       10137+          BNE   TESTREP1           NO, TRY NEXT REPLICA        @D32XDRP 70203032
007D62 D501 401A 1002 0001A 00002 10138+          CLC   REPCCB+D2(L2),D2(R1)  STILL MATCHING?           @D32XDRP 70203532
007D68 4770 B1B6      07D26       10139+          BNE   TESTREP1           NO, TRY NEXT REPLICA        @D32XDRP 70204032
007D6C 41C0 4040            00040 10140+          LA    RC,REPFPT           SET UP FOR SPACE IN BLOCK   @D32XDRP 70204532
007D70 4150 4028            00028 10141+          LA    R5,REPCCWS          SET UP POINTER TO COPIED    @D32XDRP 70205032
                                  10142+*                                   CCW-S                       @D32XDRP 70205532
007D74 48D0 400E            0000E 10143+          LH    RD,CCWSTRL          LOAD LENGTH OF CCW-STRING   @D32XDRP 70206032
007D78 9120 100C      0000C       10144+          TM    CCBBY3,USENSE       USER SENSE CCW?             @D32XDRP 70206532
007D7C 4780 B21E      07D8E       10145+          BZ    TESTREP3            NO, CHECK CCW-STRING        @D32XDRP 70207032
007D80 D507 4028 1010 00028 00010 10146+          CLC   REPCCWS(L8),D16(R1) MATCHING USER SENSE CCW?     @D32XDRP 70207532
007D86 4770 B1B6      07D26       10147+          BNE   TESTREP1            NO, TRY NEXT REPLICA        @D32XDRP 70208032
007D8A 4155 0008            00008 10148+          LA    R5,D8(R5)           POINT TO FIRST COPIED CCW   @D32XDRP 70208532
007D8E 1BC5                       10149+TESTREP3  SR    RC,R5               CALCULATE LENGTH FOR COMP.  @D32XDRP 70209032
007D90 5860 1008            00008 10150+          L     R6,CCBCCW           POINT TO VIRTUAL CCW-STR.   @D32XDRP 70209532
007D94 4166 0000            00000 10151+          LA    R6,D0(R6)           CLEAR HIGH-ORDER BYTE       @D32XDRP 70210032
007D98 19CD                       10152+TESTREP4  CR    RC,RD               LAST BLOCK TO COMPARE?      @D32XDRP 70210532
007D9A 47B0 B24E      07DBE       10153+          BNL   TESTREP5            YES, BRANCH                 @D32XDRP 70211032
007D9E 06C0                       10154+          BCTR  RC,R0               SUBTRACT ONE FOR EX INSTR.  @D32XDRP 70211532
007DA0 44C0 B3B6            07F26 10155+          EX    RC,REPLCLC          COMPARE STRING IN THIS BL.  @D32XDRP 70211732
007DA4 4770 B1B6      07D26       10156+          BNE   TESTREP1           BR IF NOT EQUAL AND TRY     @D32XDRP 70212032
                                  10157+*                                   NEXT REPLICA                @D32XDRP 70212532
007DA8 41CC 0001            00001 10158+          LA    RC,D1(RC)           RESTORE PROPER VALUE        @D32XDRP 70213032
007DAC 5840 4044            00044 10159+          L     R4,REPNEXT          ACCESS NEXT REPLICA BLOCK   @D32XDRP 70213532
007DB0 1854                       10160+          LR    R5,R4               UPDATE:                     @D32XDRP 70214032
007DB2 1A6C                       10161+          AR    R6,RC               POINTERS                    @D32XDRP 70214532
007DB4 1BDC                       10162+          SR    RD,RC               REMAINING LENGTH            @D32XDRP 70215032
007DB6 41C0 0040            00040 10163+          LA    RC,REPFPT-REPLICA   MAXIMUM FOR ONE COMPARE     @D32XDRP 70215532
007DBA 47F0 B228      07D98       10164+          B     TESTREP4            BRANCH TO COMPARE NEXT BL   @D32XDRP 70216032
007DBE 06D0                       10165+TESTREP5  BCTR  RD,R0               SUBTRACT ONE FOR EX INSTR   @D32XDRP 70216532
007DC0 44D0 B3B6            07F26 10166+          EX    RD,REPLCLC          COMPARE REMAINING CCW-S     @D32XDRP 70217032
007DC4 4770 B1B6      07D26       10167+          BNE   TESTREP1           BR IF NOT EQU.AND TRY REPL. @D32XDRP 70217532
                                  10168+* MATCHING REPLICA FOUND                                        @D32XDRP 70218032
007DC8 94FD F000      00000       10169+          NI    TCBFLAG,XFF-REPLCR  SEARCHING COMPLETED         @DA09058 70218134
007DCC 4143 7000            00000 10170+          LA    R4,D0(R3,R7)        R4= ADDR OF MAIN REPL.BLOCK @D32XDRP 70218232
007DD0 43D0 400D            0000D 10171+          IC    RD,REPLCNT          DECREASE DELETION           @D32XDRP 70218532
007DD4 06D0                       10172+          BCTR  RD,R0               COUNTER                     @D32XDRP 70218732
007DD6 42D0 400D            0000D 10173+          STC   RD,REPLCNT          BY ONE                      @D32XDRP 70218932
007DDA 4843 7042            00042 10174+          LH    R4,REPBPT-REPLICA(R3,R7)  LOAD BACKWARD POINT.  @D32XDRP 70219232
007DDE 1244                       10175+          LTR   R4,R4               TEST FOR ZERO               @D32XDRP 70219532
007DE0 4780 B27C            07DEC 10176+          BC    Z,TESTREP7          BRANCH IF TOP ELEMENT ALREAD@D32XDRP 70220032
007DE4 45D0 B4DC            0804C 10177+          BAL   RD,DEQUEU1          DEQUEUE AND                 @D32XDRP 70220532
007DE8 45D0 B4C0            08030 10178+          BAL   RD,ENQTOP0          ENQUEUE AT THE TOP          @D32XDRP 70221032
007DEC 4143 7000            00000 10179+TESTREP7  LA    R4,D0(R3,R7)        GET ABSOLUTE REPLICA ADDR   @D32XDRP 70221532
007DF0 B205 B528      08098       10180+          STCK  TIMES               GIVE                        @D32XDRP 70222032
007DF4 D203 4008 B528 00008 08098 10181+          MVC   TIMEST,TIMES        TIMESTAMP                   @D32XDRP 70222532
007DFA 5810 4004            00004 10182+          L     R1,RCCBA            POINT R1 TO COPIED CCB      @D32XDRP 70223032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007DFE 9104 101A      0001A       10183+         TM    CCBFLAG,SAVEDQ      RESIDING ON SAVED-CCB-C-BL-Q@D32XDRP 70223532
007E02 4710 B10A      07C7A       10184+         BO    FASTTRNS            YES, GO TO FAST-TRANS ROUTIN@D32XDRP 70224032
007E06 5810 4000            00000 10185+         L     R1,VCCBA            OTHERWISE POINT R1 TO V.CCB @D32XDRP 70224532
007E0A 07F8                       10186+         BR    R8                  AND RETURN TO REGULAR TRANSL@D32XDRP 70225032
                                  10187+* NO MATCHING REPLICA                                      @D32XDRP 70225532
007E0C 9703 F000      00000       10188+TESTREP6 XI    TCBFLAG,RFLAG+REPLCR SET REPL.CREAT.FLAG     @DA09058 70226034
                                  10189+*                                  ALSO SEARCHING IS COMPLETED @DA09058 70226234
007E10 9201 F03F      0003F       10190+         MVI   DIDALCNT+D1,ONE     INITIALIZE NO.OF FREE DIDA D@D32XDRP 70226532
007E14 07F8                       10191+         BR    R8                  RETURN TO REGULAR TRANSLATE @D32XDRP 70227032
                                  10192+         DROP  R4                                         @D32XDRP 70227532
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 10194+*************************************************************  @D32XDRP 70228532
                                 10195+*                                                               @D32XDRP 70229032
                                 10196+*        CREATE REPLICA   ROUTINE                               @D32XDRP 70229532
                                 10197+*                                                               @D32XDRP 70230032
                                 10198+*************************************************************  @D32XDRP 70230532
                                 10199+*                                                               @D32XDRP 70231032
                                 10200+*      FUNCTION:                                                @D32XDRP 70231532
                                 10201+*        A NEW REPLICA IS CREATE AND ENQUEED AS TOP-ELEMENT     @D32XDRP 70232032
                                 10202+*        IN THE PARTITION'S REPLICA QUEUE.                      @D32XDRP 70232532
                                 10203+*                                                               @D32XDRP 70233032
                                 10204+*        'OUT-OF-DATE' ELEMENTS IN THIS QUEUE ARE DELETED       @D32XDRP 70233532
                                 10205+*        (DELREPL).                                             @D32XDRP 70234032
                                 10206+*                                                               @D32XDRP 70234532
                                 10207+*        SPECIAL FIELDS THAT ARE SET UP IN THE MAIN REPLICA     @D32XDRP 70235032
                                 10208+*        BLOCK:                                                 @D32XDRP 70235532
                                 10209+*        BYTES: NAME:     MEANING:                              @D32XDRP 70236032
                                 10210+*        00-03 -VCCBA    -VIRTUAL CCB ADDRESS                   @D32XDRP 70236532
                                 10211+*        04-07 -RCCBA    -COPIED CCB ADDRESS                    @D32XDRP 70237032
                                 10212+*        08-08 -TIMEST   -TIMESTAMP                             @D32XDRP 70237532
                                 10213+*        0C-0C -REPPIK   -2ND BYTE OF PIK                       @D32XDRP 70237632
                                 10214+*        0D-0D -REPFLAG  -FLAGBYTE                              @D32XDRP 70237732
                                 10215+*        0E-0F -CCWSTRL  -LENGTH OF CCW-STRING (BYTES)          @D32XDRP 70238532
                                 10216+*        10-13 -REPDIDAL -POINTER TO DIDAL                      @D32XDRP 70239032
                                 10217+*        14-17 -REPDCB   -POINTER TO DEDICATED DIDAL BL CHAIN   @D32XDRP 70239532
                                 10218+*                                                               @D32XDRP 70240032
                                 10219+*      ENTRY POINTS:                                            @D32XDRP 70240532
                                 10220+*        CREATREP - FROM CCWTRANS (TERMINATION PART),IF RFLAG=1@D32XDRP 70241032
                                 10221+*                                                               @D32XDRP 70241532
                                 10222+*      EXTERNAL REFERENCES:                                     @D32XDRP 70242032
                                 10223+*        RWAIT    - ROUTINE TO GO INTO WAIT STATUS              @D32XDRP 70242132
                                 10224+*                                                               @D32XDRP 70242232
                                 10225+*      EXITS NORMAL:                                            @D32XDRP 70242332
                                 10226+*        RETURN ADDRESS IN RA                                   @D32XDRP 70242432
                                 10227+*                                                               @D32XDRP 70242532
                                 10228+*      EXITS ERROR:                                             @D32XDRP 70242632
                                 10229+*        NONE                                                   @D32XDRP 70242732
                                 10230+*                                                               @D32XDRP 70242832
                                 10231+*      INPUT:                                                   @D32XDRP 70242932
                                 10232+*        R1 - POINTS TO COPIED CCB                              @D32XDRP 70243032
                                 10233+*        RA - RETURN ADDRESS                                    @D32XDRP 70243132
                                 10234+*        RF - POINTS TO TCB                                     @D32XDRP 70243232
                                 10235+*        R9 - FIRST BASE ADDRESS                                @D32XDRP 70243332
                                 10236+*        RB - SECOND BASE ADDRESS                               @D32XDRP 70243432
                                 10237+*        PIK                                                    @D32XDRP 70243532
                                 10238+*                                                               @D32XDRP 70243632
                                 10239+*      OUTPUT:                                                  @D32XDRP 70243732
                                 10240+*        R1 - UNCHANGED                                         @D32XDRP 70243832
                                 10241+*        RA - UNCHANGED                                         @D32XDRP 70243932
                                 10242+*        R9 - UNCHANGED                                         @D32XDRP 70244032
                                 10243+*        RB - UNCHANGED                                         @D32XDRP 70244132
                                 10244+*        PIK - UNCHANGED                                        @D32XDRP 70244232
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  10245+*                                                                @D32XDRP 70244332
                                  10246+*      SUBROUTINES:                                              @D32XDRP 70244432
                                  10247+*        DELREPL, GETBLOCK, ENQTOP, RELBLOCK                     @DM12800 70244832
                                  10248+*                                                                @D32XDRP 70244932
                                  10249+*      REGISTERS CHANGED:                                        @D32XDRP 70245032
                                  10250+*        R3, R4, R5, R6, R7, R8, RC, RD, RE                      @D32XDRP 70245132
                                  10251+*                                                                @D32XDRP 70245232
                                  10252+*****************************************************************@D32XDRP 70245332
                            00000 10253+         USING REPLICA,R8          ESTABLISH ADDRESSABILITY    @D32XDRP 70245432
007E16 B205 B528      08098       10254+CREATREP STCK  TIMES               READ TOD-CLOCK              @D32XDRP 70245532
007E1A 4730 B2EA            07E5A 10255+         BC    3,NOREPL           BRANCH IF TOD INVALID       @D32XDRP 70245932
007E1E 5850 B528            08098 10256+         L     R5,TIMES           CALCULATE                   @D32XDRP 70246032
007E22 4B50 B534            080A4 10257+         SH    R5,DELTA           OUT-OF-DATE THRESHOLD       @D32XDRP 70246132
007E26 4870 067E            0067E 10258+         LH    R7,PIK             ACCESS                      @D32XDRP 70246232
007E2A 8870 0002            00002 10259+         SRL   R7,D2              PARITITION'S                @D32XDRP 70246332
007E2E 5A70 900C            06B7C 10260+         A     R7,RQBASE          REPLICA QUEUE               @D32XDRP 70246432
007E32 1B33                       10261+         SR    R3,R3              POINT TO BASE (DISPL.=0)    @D32XDRP 70246532
007E34 4883 7042            00042 10262+CREATR1  LH    R8,REPBPT-REPLICA(R3,R7)  LOAD BACKWARD POINTER @D32XDRP 70246632
007E38 1238                       10263+         LTR   R3,R8              SAVE AND TEST               @D32XDRP 70246732
007E3A 4780 B2EA      07E5A       10264+         BZ    CREATR2            BRANCH IF NO PREVIOUS ELEM. @D32XDRP 70246832
007E3E 1A87                       10265+         AR    R8,R7              POINT TO REPLICA            @D32XDRP 70246932
007E40 5840 8008            00008 10266+         L     R4,TIMEST          COMPARE LAST TIMESTAMP      @D32XDRP 70247032
007E44 1545                       10267+         CLR   R4,R5              WITH THRESHOLD              @D32XDRP 70247132
007E46 47B0 B2EA      07E5A       10268+         BNL   CREATR2            STOP AS SOON AS NOT OUT-OF-D@D32XDRP 70247232
007E4A 9015 F01C            0001C 10269+         STM   R1,R5,DYNAREA1     SAVE REGISTERS              @D32XDRP 70247332
007E4E 4520 B3C2            07F32 10270+         BAL   R2,DELREPL         DELETE REPLICA              @D32XDRP 70247432
007E52 9815 F01C            0001C 10271+         LM    R1,R5,DYNAREA1     RESTORE REGISTERS           @D32XDRP 70247532
007E56 47F0 B2C4      07E34       10272+         B     CREATR1            LOOP BACK                   @D32XDRP 70247832
                            07E5A 10273+NOREPL   EQU   *                                              @D32XDRP 70248132
007E5A 9602 F000      00000       10274+CREATR2  OI    TCBFLAG,REPLCR     INDICATE REPLICA CREATION   @DM14590 70248432
007E5E D703 F02C F02C 0002C 0002C 10275+         XC    DYNAREA3(L4),DYNAREA3 IND. NO REPLICA YET      @DM14590 70248932
007E64 4530 99CA            0753A 10276+         BAL   R3,GETBLOCK        GET REPLICA BLOCK           @D32XDRP 70249932
007E68 1884                       10277+         LR    R8,R4              SAVE ADDRESS                @D32XDRP 70250232
007E6A 5040 F02C            0002C 10278+         ST    R4,DYNAREA3        SAVE POINTER TO REPLICA     @DM14590 70250532
                                  10279+*                                 IN TCB                      @DM14590 70250832
007E6E 5840 101C            0001C 10280+         L     R4,CCBVA           LOAD ADDRESS OF VIRTUAL CCB @D32XDRP 70252032
007E72 5040 8000            00000 10281+         ST    R4,VCCBA           STORE: -VIRTUAL CCB ADDR    @D32XDRP 70252332
007E76 D20F 8018 4000 00018 00000 10282+         MVC   REPCCB(L16),D0(R4) -CCB                        @D32XDRP 70252632
007E7C 5010 8004            00004 10283+         ST    R1,RCCBA           -POINTER TO COPIED CCB      @D32XDRP 70252932
007E80 D203 8008 B528 00008 08098 10284+         MVC   TIMEST,TIMES       -TIMESTAMP                  @D32XDRP 70253232
007E86 D200 800C 067F 0000C 0067F 10285+         MVC   REPPIK(L1),PIK+D1  -PIK                        @D32XDRP 70253532
007E8C 58D0 F044            00044 10286+         L     RD,VCCWAD1         LOAD LAST EXPECTED VIR.CCB.A@D32XDRP 70253832
007E90 5840 1008            00008 10287+         L     R4,CCBCCW          LOAD POINTER TO 1ST CCW C BL@D32XDRP 70254132
                            00000 10288+         USING CCWBLOCK,R4        ESTABLISH ADDRESSABILITY    @D32XDRP 70254432
007E94 5860 403C            0003C 10289+         L     R6,VBA             GET VIRT.BYTE ADDR 1ST CCW  @D32XDRP 70254732
                                  10290+         DROP  R4                                            @D32XDRP 70255032
007E98 1BD6                       10291+         SR    RD,R6              CALCULATE NUMBER OF BYTES   @D32XDRP 70255332
007E9A 40D0 800E            0000E 10292+         STH   RD,CCWSTRL         -LENGTH OF CCW-STRING       @D32XDRP 70255632
007E9E 5850 F034            00034 10293+         L     R5,TCBDCB          -ADDRESS OF                 @D32XDRP 70255932
007EA2 5050 8010            00010 10294+         ST    R5,REPDIDAL         DIDAL                      @D32XDRP 70256232
007EA6 5050 8014            00014 10295+         ST    R5,REPDCB          -POINTER TO DIDAL BL CHAIN  @D32XDRP 70256532
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007EAA 41C0 8040            00040 10296+         LA    RC,REPFPT           SET UP FOR AVAIL BL-SPACE   @D32XDRP 70256832
007EAE 4150 8028            00028 10297+         LA    R5,REPCCWS          SET UP POINT.TO FIRST C LCC.@D32XDRP 70257132
007EB2 9120 100C      0000C       10298+         TM    CCBBY3,USENSE       -USER SENSE CCW             @D32XDRP 70257432
007EB6 4780 B358      07EC8       10299+         BZ    CREATR3              IF AVAILABLE               @DA09703 70257534
007EBA 5840 101C            0001C 10300+         L     R4,CCBVA            LOAD ADDRESS OF VIRTUAL CCB @DA09703 70257934
007EBE D207 8028 4010 00028 00010 10301+         MVC   REPCCWS(L8),CCBSENS-CCBADR(R4) COPY SENSE CCW   @DA09703 70258034
007EC4 4155 0008            00008 10302+         LA    R5,D8(R5)                (RESERVE 1 MORE DWORD)@D32XDRP 70258332
007EC8 1BC5                       10303+CREATR3  SR    RC,R5               CALCULATE AVAILABLE SPACE   @D32XDRP 70258632
007ECA 19CD                       10304+CREATR4  CR    RC,RD               DO CCW-S FIT IN THIS BLOCK? @D32XDRP 70258932
007ECC 47B0 B382      07EF2       10305+         BNL   CREATR5             YES, BRANCH                 @D32XDRP 70259232
007ED0 06C0                       10306+         BCTR  RC,R0               SUBTRACT ONE FOR EX INSTR.  @D32XDRP 70259532
007ED2 44C0 B3BC            07F2C 10307+         EX    RC,REPLMVC          FILL BLOCK                  @D32XDRP 70259832
007ED6 41CC 0001            00001 10308+         LA    RC,D1(RC)           RESTORE PROPER VALUE        @D32XDRP 70260132
007EDA 4530 99CA            0753A 10309+         BAL   R3,GETBLOCK         GET NEW REPLICA BLOCK       @D32XDRP 70260432
007EDE 5040 8044            00044 10310+         ST    R4,REPNEXT          CHAIN IT                    @D32XDRP 70260732
007EE2 1884                       10311+         LR    R8,R4               SAVE ADDRESS OF LAST REPL.BL@D32XDRP 70261032
007EE4 1854                       10312+         LR    R5,R4               UPDATE:                     @D32XDRP 70261232
007EE6 1A6C                       10313+         AR    R6,RC               POINTERS                    @D32XDRP 70261432
007EE8 1BDC                       10314+         SR    RD,RC               REMAINING LENGTH            @D32XDRP 70261632
007EEA 41C0 0040            00040 10315+         LA    RC,REPFPT-REPLICA   AVAILABLE BLOCK-SPACE       @D32XDRP 70261832
007EEE 47F0 B35A      07ECA       10316+         B     CREATR4             TRY TO FIT IN NEW BLOCK     @D32XDRP 70262032
007EF2 06D0                       10317+CREATR5  BCTR  RD,R0               SUBTRACT ONE FOR EX INSTR.  @D32XDRP 70262232
007EF4 44D0 B3BC            07F2C 10318+         EX    RD,REPLMVC          COPY REMAINING CCW-S        @D32XDRP 70262432
007EF8 5840 1040            00040 10319+         L     R4,CCBXPTR          ADDITIONAL FIXINF-          @DM14590 70262632
007EFC 1244                       10320+         LTR   R4,R4               BLOCKS AVAILABEL            @DM14590 70262832
007EFE 4780 B396      07F06       10321+         BZ    CREATR6             NO, BR                      @DM14590 70263032
007F02 4530 9B36            076A6 10322+         BAL   R3,RELBLOCK         RELEASE FIXINF BLOCKS       @DM14590 70263232
007F06 5830 F02C            0002C 10323+CREATR6  L     R3,DYNAREA3         GET PTR TO REPLICA          @DM14590 70263432
007F0A 5030 103C            0003C 10324+         ST    R3,CCBRCB           SET PTR IN CCB              @DM14590 70263632
007F0E 4870 067E            0067E 10325+         LH    R7,PIK              ACCESS                      @DM15345 70263733
007F12 8870 0002            00002 10326+         SRL   R7,D2               PARTITION'S                 @DM15345 70263833
007F16 5A70 900C            06B7C 10327+         A     R7,RQBASE           REPLICA QUEUE               @DM15345 70263933
007F1A 1B37                       10328+         SR    R3,R7               GET DISPLACEMENT FROM BASE  @DM14590 70264133
007F1C 45D0 B4C6            08036 10329+         BAL   RD,ENQTOP           ENQUE AT TOP OF REPLICA -Q  @DM14590 70264233
007F20 94FD F000      00000       10330+         NI    TCBFLAG,XFF-REPLCR  RESET REPLICA CREATION FLAG @DM14590 70264333
007F24 07FA                       10331+         BR    RA                  RETURN                      @D32XDRP 70264433

007F26 D500 5000 6000 00000 00000 10333+REPLCLC  CLC   D0(L1,R5),D0(R6)    USED BY EXEC. TO COMP CCW-S @D32XDRP 70264633
007F2C D200 5000 6000 00000 00000 10334+REPLMVC  MVC   D0(L1,R5),D0(R6)    USED BY EXEC. TO COPY CCW-S @D32XDRP 70264733
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 10336+*************************************************************** @D32XDRP 70264932
                                 10337+*                                                               @D32XDRP 70265232
                                 10338+*       FREE CCB  (DELETE REPLICA)  ROUTINE                     @D32XDRP 70265532
                                 10339+*                                                               @D32XDRP 70265832
                                 10340+*************************************************************** @D32XDRP 70266132
                                 10341+*     FUNCTION:                                                 @D32XDRP 70266432
                                 10342+*       A REPLICA AND ITS ASSOCIATED CCB COPY, TOGETHER WITH    @D32XDRP 70266732
                                 10343+*       CCW-S, IDAL AND DIDAL, ARE DELETED IF THE CCB COPY      @D32XDRP 70267032
                                 10344+*       RESIDES ON THE SAVED-COPY-BLOCK-QUEUE.                  @D32XDRP 70267332
                                 10345+*       FIXED DATA AREA PAGES, IF ANY, ARE FREED FIRST.         @D32XDRP 70267632
                                 10346+*       IF THE COPY IS NOT ON THE 'SAVED' QUEUE THEN THERE IS   @DA09058 70267934
                                 10347+*       AN IMMEDIATE RETURN WITHOUT ANY ACTION.                 @DA09058 70268334
                                 10348+*       IF TESTREPL IS IN PROCESS FOR THIS REPLICA, THEN THE    @DA09058 70268434
                                 10349+*       TASKS HAVING REPLICA SEARCH IN PROCESS ARE SET BACK      @DA09058 70268534
                                 10350+*       TO RESTART TRANSLATION.                                 @DA09058 70268634
                                 10351+*       IF THE CCBCOPY IS ON THE SAVED QUEUE BUT THE USERS      @D32XDRP 70268734
                                 10352+*       CCB IS NOT YET POSTED (I.E.I/O COMPLETE BUT RELCCB      @D32XDRP 70268834
                                 10353+*       NOT YET EXECUTED) THE CCB-COPY IS NOT DELETED AND       @D32XDRP 70268932
                                 10354+*       REMAINS ON THE ACTIVE CCB QUEUE. THE FASTTR- AND        @D32XDRP 70269132
                                 10355+*       AND SAVEQ-BITS ARE SET OFF.                             @D32XDRP 70269332
                                 10356+*                                                               @D32XDRP 70270032
                                 10357+*     ENTRY POINTS:                                             @D32XDRP 70270232
                                 10358+*       DELREPL - FROM CREATREP AND DELREPA ROUTINE             @D32XDRP 70270432
                                 10359+*       FREECCB - FROM GETBLOCK EXCEPTION HANDLING CODE         @D32XDRP 70270632
                                 10360+*                 (GETBL1)                                      @D32XDRP 70270832
                                 10361+*                 - AND FROM RELCCB ROUTINE                     @D32XDRP 70271032
                                 10362+*                                                               @D32XDRP 70271232
                                 10363+*     INPUT:                                                    @D32XDRP 70271432
                                 10364+*     A. WHEN ENTERED AT DELREPL:                               @D32XDRP 70271632
                                 10365+*        R2 - RETURN ADDRESS                                    @D32XDRP 70271832
                                 10366+*        R7 - POINTS TO PARTITION'S REPLICA QUEUE               @D32XDRP 70272032
                                 10367+*        R8 - POINTS TO REPLICA THAT IS TO BE DELETED           @D32XDRP 70272232
                                 10368+*        R9 - FIRST BASE ADDRESS                                @D32XDRP 70272432
                                 10369+*        RB - SECOND BASE ADDRESS                               @D32XDRP 70272632
                                 10370+*     B. WHEN ENTERED AT FREECCB:                               @D32XDRP 70272832
                                 10371+*        R1 - POINTS TO COPIED CCB THAT IS TO BE DELETED        @D32XDRP 70273032
                                 10372+*           - (ALWAYS THE BOTTOM ELEMENT IN THE SAVED-CCB-      @D32XDRP 70273232
                                 10373+*           - COPY-BLOCK-QUEUE)                                 @D32XDRP 70273432
                                 10374+*        R2 - RETURN ADDRESS                                    @D32XDRP 70273632
                                 10375+*                                                               @D32XDRP 70273832
                                 10376+*     OUTPUT:                                                   @D32XDRP 70274032
                                 10377+*       R1 - POINTS TO DELETED CCB COPY                         @D32XDRP 70274232
                                 10378+*       R2 - UNCHANGED                                          @D32XDRP 70274432
                                 10379+*       R7 - POINTS TO PARTITION'S REPLICA QUEUE                @D32XDRP 70274632
                                 10380+*       R8 - POINTS TO DELETED REPLICA                          @D32XDRP 70274832
                                 10381+*       R9 - UNCHANGED                                          @D32XDRP 70275032
                                 10382+*       RB - UNCHANGED                                          @D32XDRP 70275232
                                 10383+*                                                               @D32XDRP 70275432
                                 10384+*     EXTERNAL REFERENCES:                                      @D32XDRP 70275632
                                 10385+*       TFREE   - ROUTINE TO FREE A PAGE                        @D32XDRP 70275832
                                 10386+*                                                               @D32XDRP 70276032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 10387+*      EXITS NORMAL:                                                @D32XDRP 70278032
                                 10388+*        RETURN ADDRESS IN R2                                       @D32XDRP 70278832
                                 10389+*                                                                   @D32XDRP 70279632
                                 10390+*      EXITS ERROR:                                                 @D32XDRP 70280432
                                 10391+*        NONE                                                       @D32XDRP 70281232
                                 10392+*                                                                   @D32XDRP 70282032
                                 10393+*      SUBROUTINES:                                                 @D32XDRP 70282832
                                 10394+*        UNFIX, RELBLOCK, DEQUEU                                    @D32XDRP 70283632
                                 10395+*                                                                   @D32XDRP 70284432
                                 10396+*      REGISTERS CHANGED:                                           @D32XDRP 70285232
                                 10397+*      A. WHEN ENTERED AT DELREPL: R1, R3, R4, R5, R6, RD, RE       @D32XDRP 70286032
                                 10398+*      B. WHEN ENTERED AT FREECCB: R3, R4, R5, R6, R7, RC,          @D32XDRP 70286832
                                 10399+*                                  RD, RE                           @D32XDRP 70287632
                                 10400+*                                                                   @D32XDRP 70288432
                                 10401+************************************************************       @D32XDRP 70289232
007F32 5810 8004          00004 10402+DELREPL  L     R1,RCCBA            POINT TO COPIED CCB              @DA09058 70292034
007F36 9104 101A    0001A       10403+         TM    CCBFLAG,SAVEDQ      RESIDING ON SAVED-CCB-COPY-      @D32XDRP 70293032
                                 10404+*                                  BLOCK-QUEUE                      @D32XDRP 70296032
007F3A 0782                      10405+         BCR   Z,R2                RETURN IF NOT                    @D32XDRP 70299032
007F3C 47F0 B3E2    07F52       10406+         B     FREECCB1            OK, GO AHEAD                     @D32XDRP 70311032
007F40 5880 103C          0003C 10407+FREECCB  L     R8,CCBRCB           POINT TO REPLICA                 @D32XDRP 70314032
007F44 1B77                      10408+         SR    R7,R7                                                @D32XDRP 70326032
007F46 4370 800C          0000C 10409+         IC    R7,REPPIK           ACCESS                           @D32XDRP 70329032
007F4A 8870 0002          00002 10410+         SRL   R7,D2               PARTITION'S                      @D32XDRP 70332032
007F4E 5A70 900C          06B7C 10411+         A     R7,RQBASE           REPLICA QUEUE                    @D32XDRP 70335032
007F52 9500 800D    0000D       10412+FREECCB1 CLI   REPLCNT,X00         TESTREPL IN PROCESS              @DA09058 70335734
007F56 4770 B454    07FC4       10413+         BNE   RSTRPL              YES, GO SETUP TO RESTART         @DA09058 70336434
                                 10414+*                                  CCW TRANSLATION                  @DA09058 70337134
007F5A 45D0 988C          073FC 10415+FREECCB2 BAL   RD,UNFIX           FREE PAGES                       @DA09058 70338034
007F5E 5840 1020          00020 10416+         L     R4,CCBACB           POINT TO CCW C BL CHAIN          @D32XDRP 70341032
007F62 4530 9B36          076A6 10417+         BAL   R3,RELBLOCK         RELEASE CCW COPY BLOCKS          @D32XDRP 70344032
007F66 5840 1024          00024 10418+         L     R4,CCBICB           LOAD POINTER TO IDAL BL CHAI     @D32XDRP 70347032
007F6A 1244                      10419+         LTR   R4,R4               TEST FOR ZERO                    @D32XDRP 70350032
007F6C 4780 B404    07F74       10420+         BZ    FREECCB3            BRANCH IF NO IDAL BL CHAIN       @D32XDRP 70353032
007F70 4530 9B36          076A6 10421+         BAL   R3,RELBLOCK         RELEASE IDAL BLOCKS              @D32XDRP 70356032
007F74 5840 8014          00014 10422+FREECCB3 L     R4,REPDCB           LOAD POINTER TO DIDAL BL CH      @D32XDRP 70359032
007F78 1244                      10423+         LTR   R4,R4               TEST FOR ZERO                    @D32XDRP 70362032
007F7A 4780 B412    07F82       10424+         BZ    FREECCB4            BRANCH IF NO DIDAL BL AVAIL.     @D32XDRP 70365032
007F7E 4530 9B36          076A6 10425+         BAL   R3,RELBLOCK         RELEASE DIDAL BLOCKS             @D32XDRP 70368032
007F82 1838                      10426+FREECCB4 LR    R3,R8               DEQUEUE                          @D32XDRP 70371032
007F84 1B37                      10427+         SR    R3,R7               REPLICA                          @D32XDRP 70374032
007F86 18C7                      10428+         LR    RC,R7               SAVE REGISTER 7                  @D32XDRP 70377032
007F88 45D0 B4D8          08048 10429+         BAL   RD,DEQUEU                                            @D32XDRP 70380032
007F8C 5870 B530          080A0 10430+         L     R7,SAVCCBQ          DEQUEUE                          @D32XDRP 70398032
007F90 1831                      10431+         LR    R3,R1               CCB                              @D32XDRP 70398132
007F92 1B37                      10432+         SR    R3,R7               FROM SAVED-CCB-C-BL-Q            @D32XDRP 70398232
007F94 4930 08C6          008C6 10433+         CH    R3,LOWFXPTR         IS LOWFXPTR AFFECTED?            @D32XDRP 70398332
007F98 4770 B432    07FA2       10434+         BNE   FREECCB5            NO, BRANCH                       @D32XDRP 70398432
007F9C D201 08C6 1042 008C6 00042 10435+         MVC   LOWFXPTR,CCBBPT     UPDATE LOWFXPTR                  @D32XDRP 70398532
                          07FA2  10436+FREECCB5 EQU   *                                                    @D32XDRP 70398632
007FA2 45D0 B4D8          08048  10437+         BAL   RD,DEQUEU                                            @D32XDRP 70398732
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

007FA6 187C                      10438+         LR    R7,RC               RESTORE REGISTER 7          @D32XDRP 70398832
007FA8 1848                      10439+         LR    R4,R8               PREP.TO RELEASE REPL. ONLY  @D32XDRP 70398932
007FAA 9108 101A      0001A      10440+         TM    CCBFLAG,FASTTR      USER CCB ALREADY POSTED ?   @D32XDRP 70399032
007FAE 4710 B44A      07FBA      10441+         BO    FREECCB6            NO,BRANCH RELEASE ONLY REPL @D32XDRP 70399132
007FB2 D203 1044 103C 00044 0003C 10442+         MVC   CCBNEXT,CCBRCB      CHAIN REPLICA BL CHAIN TO   @D32XDRP 70399232
007FB8 1841                      10443+         LR    R4,R1               CCB-COPY-BLOCK,POINT TO CCB @D32XDRP 70399332
007FBA 94F3 101A      0001A      10444+FREECCB6 NI    CCBFLAG,X'FF'-FASTTR-SAVEDQ  RESET BITS IF ON   @D32XDRP 70399432
                                 10445+*                                    AT ALL                      @D32XDRP 70399532
007FBE 4530 9B36           076A6 10446+         BAL   R3,RELBLOCK         RELEASE ALL REMAINING BL    @D32XDRP 70399632
007FC2 07F2                      10447+         BR    R2                  RETURN                      @D32XDRP 70399732
                                 10448+         DROP  R8,RA,RF                                        @DA09058 70399834



                           00000 10450+         USING CCWTCB,R5           TCB ADDRESSABILITY          @DA09058 70400034
007FC4 9025 B498           08008 10451+RSTRPL   STM   R2,R5,RSTERA        SAVE A FEW REGISTERS        @DA09058 70401034
007FC8 BF5F 9004           06B74 10452+         ICM   R5,M15,AUTCB        POINT TO FIRST USED TCB     @DA09058 70402034
007FCC 47F0 B464      07FD4      10453+         B     RSTRPL2             GO ON                       @DA09058 70403034
007FD0 BF5F 5080           00080 10454+RSTRPL1 ICM   R5,M15,TCBPTR        NEXT USED TCB               @DA09058 70404034
007FD4 4780 B490      08000      10455+RSTRPL2 BZ    RSTRPL4             RETURN IF NO NEXT TCB       @DA09058 70405034
007FD8 9103 5000      00000      10456+         TM    TCBFLAG,RFLAG+REPLCR REPLICA SEARCH. IN PROCESS @DA09058 70406034
007FDC 47B0 B460      07FD0      10457+         BNM   RSTRPL1             NO, TAKE NEXT TCB           @DA09058 70407034
007FE0 9102 5000      00000      10458+         TM    TCBFLAG,REPLCR      ARE YOU SURE                @DA09058 70408034
007FE4 4780 B460      07FD0      10459+         BZ    RSTRPL1             NO, TAKE NEXT TCB           @DA09058 70409034
007FE8 5830 5068           00068 10460+         L     R3,SAVEREGA         REQUESTORS PIB ADDRESS      @DA09058 70410034
                           00000 10461+         USING PIBADR,R3           ADDRESSABILITY              @DA09058 70411034
007FEC 5840 3008           00008 10462+         L     R4,PIBSAV2          SECOND SAVE AREA            @DA09058 70412034
                           00000 10463+         USING SVEARA,R4           ADDRESSABILITY              @DA09058 70413034
007FF0 4120 91DC           06D4C 10464+         LA    R2,CCWREST          RESTART POINT               @DA09058 70414034
007FF4 5020 400C           0000C 10465+         ST    R2,SVEPSW2          STORE ADDRESS IN PSW        @DA09058 70415034
007FF8 9200 5000      00000      10466+         MVI   TCBFLAG,ZERO        CLEAN FLAG BYTE             @DA09058 70416034
007FFC 47F0 B460      07FD0      10467+         B     RSTRPL1             CHECK NEXT TCB              @DA09058 70417034
008000 9825 B498           08008 10468+RSTRPL4 LM    R2,R5,RSTERA        RESTORE REGISTERS           @DA09058 70418034
008004 47F0 B3EA      07F5A      10469+         B     FREECCB2            GO ON THE PROCESS           @DA09058 70419034
008008                           10470+RSTERA   DS    4F                  SAVE AREA REGS 2 THR 5      @DA09058 70420034
                                 10471+         DROP  R3,R4,R5            DROP TEMP BASES             @DA09058 70421034
                           00000 10472+         USING CCWTCB,RF           NORMAL ADDRESSABILITY       @DA09058 70422034
                           00000 10473+         USING PIBADR,RA           NORMAL ADDRESSABILITY       @DA09058 70423034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 10475+************************************************************  @D32XDRP 70425034
                                 10476+*                                                              @D32XDRP 70430032
                                 10477+*       DEFIX  SUBROUTINE                                      @D32XDRP 70460032
                                 10478+*                                                              @D32XDRP 70506032
                                 10479+************************************************************  @D32XDRP 70508032
                                 10480+*                                                              @D32XDRP 70510032
                                 10481+*      FUNCTION:                                               @D32XDRP 70512032
                                 10482+*        FREES DATA AREA PAGES ASSOCIATED WITH COPIED CCB      @D32XDRP 70514032
                                 10483+*        POINTED TO BY LOWFXPTR.                               @D32XDRP 70516032
                                 10484+*                                                              @D32XDRP 70518032
                                 10485+*      ENTRY POINTS:                                           @D32XDRP 70520032
                                 10486+*        DEFIX    - FROM CSWTRANS                              @D32XDRP 70522032
                                 10487+*                                                              @D32XDRP 70524032
                                 10488+*      INPUT:                                                  @D32XDRP 70526032
                                 10489+*        LOWFXPTR - DISPLACEMENT OF CCB C BL FROM BASE OF      @D32XDRP 70528032
                                 10490+*                   SAVED-CCB-COPY-BLOCK-QUEUE                 @D32XDRP 70530032
                                 10491+*        R2       - RETURN ADDRESS                             @D32XDRP 70532032
                                 10492+*                                                              @D32XDRP 70534032
                                 10493+*      OUTPUT:                                                 @D32XDRP 70536032
                                 10494+*        LOWFXPTR - DISPLACEMENT FROM SAVED-CCB-C-BL-Q         @D32XDRP 70538032
                                 10495+*                   - BASE OF NEXT HIGER CCB C BL IN THE QUEUE @D32XDRP 70540032
                                 10496+*        R2       - UNCHANGED                                  @D32XDRP 70542032
                                 10497+*                                                              @D32XDRP 70544032
                                 10498+*      EXITS NORMAL:                                           @D32XDRP 70550032
                                 10499+*        RETURN ADDRESS IN R2                                  @D32XDRP 70550432
                                 10500+*                                                              @D32XDRP 70550832
                                 10501+*      EXITS ERROR:                                            @D32XDRP 70551232
                                 10502+*        NONE                                                  @D32XDRP 70551632
                                 10503+*                                                              @D32XDRP 70552032
                                 10504+*      EXTERNAL REFERENCES:                                    @D32XDRP 70552432
                                 10505+*        NONE                                                  @D32XDRP 70552832
                                 10506+*                                                              @D32XDRP 70553232
                                 10507+*      SUBROUTINES:                                            @D32XDRP 70553632
                                 10508+*        UNFIX                                                 @D32XDRP 70554032
                                 10509+*                                                              @D32XDRP 70554432
                                 10510+*      REGISTER CHANGED:                                       @D32XDRP 70554832
                                 10511+*        R1, R3, R4, R5, R6, RC, RD, RE                        @D32XDRP 70555232
                                 10512+*                                                              @D32XDRP 70555632
                                 10513+************************************************************  @D32XDRP 70556032
008018 1861                      10514+DEFIX    LR    R6,R1               SAVE REG 1                  @D32XDRP 70556432
00801A 4810 08C6          008C6  10515+         LH    R1,LOWFXPTR         LOAD LOWFXPTR               @D32XDRP 70558032
00801E 5A10 B530          080A0  10516+         A     R1,SAVCCBQ          POINT TO COPIED CCB         @D32XDRP 70558432
008022 45D0 988C          073FC  10517+         BAL   RD,UNFIX            FREE PAGES                  @D32XDRP 70558832
008026 D201 08C6 1042 008C6 00042 10518+        MVC   LOWFXPTR,CCBBPT     UPDATE LOWFXPTR             @D32XDRP 70559232
00802C 1816                      10519+         LR    R1,R6               RESTORE REG 1               @D32XDRP 70559632
00802E 07F2                      10520+         BR    R2                  RETURN TO CSWTRANS          @D32XDRP 70560032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 10522+************************************************************ @D32XDRP 70564032
                                 10523+*                                                            @D32XDRP 70564432
                                 10524+*        QUEUE HANDLING SUBROUTINES                          @D32XDRP 70564832
                                 10525+*                                                            @D32XDRP 70565232
                                 10526+************************************************************ @D32XDRP 70565632
                                 10527+*                                                            @D32XDRP 70566032
                                 10528+*      FUNCTION:                                             @D32XDRP 70566432
                                 10529+*        ENQUEUES AT TO/DEQUEUES 2-WAY CHAINED COPY BLOCK    @D32XDRP 70566832
                                 10530+*                                                            @D32XDRP 70567232
                                 10531+*      ENTRY POINTS:                                         @D32XDRP 70567632
                                 10532+*        ENQTOP    - FROM CREATREP                           @D32XDRP 70568032
                                 10533+*        ENQTOP0   - FROM TESTREPL                           @D32XDRP 70568432
                                 10534+*        DEQUEU    - FROM DELREPL, FASTTRNS                  @D32XDRP 70568832
                                 10535+*        DEQUEU1   - FROM TESTREPL                           @D32XDRP 70569232
                                 10536+*                                                            @D32XDRP 70569632
                                 10537+*      INPUT:                                                @D32XDRP 70570032
                                 10538+*        R7 - POINTS TO QUEUE BASE                           @D32XDRP 70570432
                                 10539+*        R3 - DISPLACEMENT FROM QUEUE BASE                   @D32XDRP 70570832
                                 10540+*        RD - RETURN ADDRESS                                 @D32XDRP 70571232
                                 10541+*                                                            @D32XDRP 70571632
                                 10542+*      OUTPUT:                                               @D32XDRP 70572032
                                 10543+*        R7 - UNCHANGED                                      @D32XDRP 70572432
                                 10544+*        R3 - UNCHANGED                                      @D32XDRP 70572832
                                 10545+*        RD - UNCHANGED                                      @D32XDRP 70573232
                                 10546+*                                                            @D32XDRP 70573632
                                 10547+*      EXITS NORMAL:                                         @D32XDRP 70574032
                                 10548+*        RETURN ADDRESS IN RD                                @D32XDRP 70574432
                                 10549+*                                                            @D32XDRP 70574832
                                 10550+*      EXITS ERROR:                                          @D32XDRP 70575232
                                 10551+*        NONE                                                @D32XDRP 70575632
                                 10552+*                                                            @D32XDRP 70576032
                                 10553+*      EXTERNAL REFERENCES:                                  @D32XDRP 70576432
                                 10554+*        NONE                                                @D32XDRP 70576832
                                 10555+*                                                            @D32XDRP 70577232
                                 10556+*      REGISTERS CHANGED:                                    @D32XDRP 70577632
                                 10557+*        IN ENQTOP:   R4                                     @D32XDRP 70578032
                                 10558+*        IN DEQUEU:   R4, R5                                 @D32XDRP 70578432
                                 10559+*                                                            @D32XDRP 70578832
                                 10560+************************************************************ @D32XDRP 70579232

                                 10562+*        ENQUEUE AT THE TOP                                  @D32XDRP 70580032
008030 1B44                      10563+ENQTOP0  SR    R4,R4                                         @D32XDRP 70580432
008032 4043 7042          00042  10564+         STH   R4,CCBBPT-CCBCNT(R3,R7)  SET BACKWARD PTR OF  @D32XDRP 70580832
                                 10565+*                                      NEW BLOCK TO ZERO     @D32XDRP 70581232
008036 4847 0040          00040  10566+ENQTOP   LH    R4,CCBFPT-CCBCNT(R7)  GET OFFS. TO OLD FIRST BL @D32XDRP 70581632
00803A 4034 7042          00042  10567+         STH   R3,CCBBPT-CCBCNT(R4,R7)  CHANGE BACKWARD PTR  @D32XDRP 70582032
                                 10568+*                                      IN OLD FIRST BLOCK    @D32XDRP 70582432
00803E 4043 7040          00040  10569+         STH   R4,CCBFPT-CCBCNT(R3,R7)  STORE FORW.PTR NEW BL @D32XDRP 70582832
008042 4037 0040          00040  10570+         STH   R3,CCBFPT-CCBCNT(R7)     CHANGE QUEUE HEADER   @D32XDRP 70583232
008046 07FD                      10571+         BR    RD                                            @D32XDRP 70583632
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   10573+*        DEQUEUE                                                 @D32XDRP 70584432
008048 4843 7042                   00042 10574+DEQUEU   LH    R4,CCBBPT-CCBADR(R3,R7)                    @D32XDRP 70584832
00804C 4853 7040                   00040 10575+DEQUEU1  LH    R5,CCBFPT-CCBADR(R3,R7)                    @D32XDRP 70585232
008050 4045 7042                   00042 10576+         STH   R4,CCBBPT-CCBADR(R5,R7)                    @D32XDRP 70585632
008054 4054 7040                   00040 10577+         STH   R5,CCBFPT-CCBADR(R4,R7)                    @D32XDRP 70586032
008058 07FD                              10578+         BR    RD                                         @D32XDRP 70586432
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 10580+************************************************************ @D32XDRP 70587232
                                 10581+*                                                             @D32XDRP 70587632
                                 10582+*        FIELDS USED BY FAST-TRANSLATE                        @D32XDRP 70588032
                                 10583+*                                                             @D32XDRP 70588432
                                 10584+************************************************************ @D32XDRP 70588832



00805C                           10586+         DS    0F                                             @DA09070 70589334
00805C                           10587+CCWERA1  DS    15F                SAVEAREA FOR DEFIXALL       @DA09070 70589434
008098                           10588+         DS    0D                                             @D32XDRP 70589632
008098 0000000000000000          10589+TIMES    DC    2F'0'              TOD                         @D32XDRP 70590032
0080A0 0001DCD4                  10590+SAVCCBQ  DC    A(SAVCCBQH-(CCBFPT-CCBCNT)) ADDRESS OF SAVED- @D32XDRP 70590832
                                 10591+*                                    CCB-COPY-BL-Q-B          @D32XDRP 70591232
0080A4 0001                      10592+DELTA    DC    H'1'               1 SEC: DEFINES 'OUT-OF-DAT' @D32XDRP 70592032
0080A6 01                        10593+HEX01    DC    X'01'              USED TO SET BIT             @D32XDRP 70592432
0080A7 80                        10594+HEX80    DC    X'80'              IN DIDAL                    @D32XDRP 70592732
                                 10595+*                                                             @D32XDRP 70594032
                                 10596+********* TESTIDAL ***********                                @D32XDRP 70594432
                                 10597+*                                                             @D32XDRP 70594832
0080A8                           10598+         DS    0F                                             @D32XDRP 70595232
0080A8 000007FF                  10599+IDALC1   DC    X'000007FF'                                    @D32XDRP 70595632
0080AC FFFFF800                  10600+IDALC2   DC    X'FFFFF800'                                    @D32XDRP 70596032
0080B0 000000                    10601+CON0     DC    X'000000'          CONSTANT.                              70596432
0080B3 07                        10602+         DC    X'07'                                                     70597332
0080B4                   080B0   10603+         ORG   *-4                                                       70598232
0080B0 00000007                  10604+DISPLC1  DC    X'00000007'                                    @D32XDRP 70599132
0080B4 000000F0                  10605+FIXC1    DC    X'000000F0' .      MASK TO CLEAR BITS          @DM01788 70600032
                                 10606+*                                                                     70630032
                                 10607+********* LOCATE ********                                           70660032
                                 10608+*                                                                     70690032
0080B8 FFFFFFC8                  10609+LOCC1    DC    F'-56' .            VBA OF DUMMY LOW BLOCK                 70720032
0080BC 00000000                  10610+LOCC2    DC    F'0' .              BA OF DUMMY HIGH BLOCK                 70750032
0080C0 02200044                  10611+         DC    X'02200044' .       VBA OF DUMMY HIGH BLOCK                70780032
0080C4                   080C0   10612+         ORG   *-4 .               SAVE 4 BYTES                           70810032
0080C0 0220                      10613+H544     DC    H'544'                                                    70840032
0080C2 0044                      10614+H68      DC    H'68'                                                     70870032
0080C4 00C0                      10615+H192     DC    H'192'                                                    70900032
                                 10616+*                                                                     70950028
                                 10617+********* TESTDEV *********                                          71000028
                                 10618+*                                                                     71050028
                                 10619+*        DEVL1ST AND DEVL2ST ARE DIRECT ACCESS TABLES FOR TP AND DASD 71100028
                                 10620+*        COMMANDS WITH STATUS MODIFIERS.                              71150028
                                 10621+*        THE 8 BITS OF THE COMMAND CODE TAKEN AS BINARY VALUE,ARE USED 71200028
                                 10622+*        AS BIT-OFFSET TO ADDRESS A BIT WHICH IF ON MEANS,THE COMMAND 71250028
                                 10623+*        IS A STATUS MODIFIER COMMAND                                 71300028
                                 10624+*        DEVL2CD.MEANING AS ABOVE,BUT ONLY THE 1ST 6 BITS OF THE      71350028
                                 10625+*        COMMAND CODE ARE USED.                                       71400028
                                 10626+*                                                                     71450028
0080C6 0040000200000000          10627+DEVL1ST  DC    X'0040000200000000' STAT MOD COMMANDS FOR TP  @DA00251 71500030
0080CE 0000000000000000          10628+         DC    X'0000000000000000'                                    71550030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0080D6 0000000000000000           10629+         DC    X'0000000000000000'                                        71600028
0080DE 0000000000000000           10630+         DC    X'0000000000000000'                                        71650028

0080E6 0000000004444440           10632+DEVL2ST  DC    X'0000000004444440' 2311,2314,2319,2321,3330               71750028
0080EE 0444440004444400           10633+         DC    X'0444440004444400'                                        71800028
0080F6 0000000004444440           10634+         DC    X'0000000004444440'                                        71850028
0080FE 0444440004444400           10635+         DC    X'0444440004444400'                                        71900028
008106 0000000800000008           10636+DEVL6ST  DC    X'0000000800000008' 1287,1288                              71910028
00810E 0000001800000008           10637+         DC    X'0000001800000008'                                        71920028
008116 0000200000002000           10638+         DC    X'0000200000002000'                                        71930028
00811E 0000000000000000           10639+         DC    X'0000000000000000'                                        71940028
008126 4000000000000000           10640+DEVLAST  DC    X'4000000000000000' 3895 STATUS MODIFIER CMDS   @DY14857 71941034
00812E 0000000000000000           10641+         DC    X'0000000000000000'                             @DY14857 71941834
008136 0000000000000000           10642+         DC    X'0000000000000000'                             @DY14857 71942634
00813E 0000000000000000           10643+         DC    X'0000000000000000'                             @DY14857 71943434
008146 00A0000000000000           10644+DEVL1CD  DC    X'00A0000000000000' CTRL COMM. WITH DATA FOR TP @DA00396 71945030
00814E 7380080800000000           10645+DEVL2CD  DC    X'7380080800000000' CONTROL COMMANDS WITH DATA           71950028
008156 400000800000000A           10646+DEVL3CD  DC    X'400000800000000A' CTRL COMMANDS WITH DATA FOR 1403U,   72000028
                                  10647+*                                  3211,5203U,5203UD                   72000528
00815E 0080888080000000           10648+DEVL4CD  DC    X'0080888080000000' CONTROL COMMANDS WITH DATA  @D34YDJR 72009534
                                  10649+*                                  AREA FOR APRT:                  @D34YDJR 72018534
                                  10650+*                                  X'23', X'43', X'53', X'63'      @D34YDJR 72027534
                                  10651+*                                  X'83'                           @D34YDJR 72036534
                                  10652+*EVL4CD  DC    X'5400000095555500' CTRL.COMM.1403,-2,-3,-N1 SEL.TAPE    72050028
008166 0444444400000000           10653+DEVL5CD  DC    X'0444444400000000' CONTR. COMMAND WITH DATA FOR 2560    72075028
00816E 00000A0000000000           10654+DEVL6CD  DC    X'00000A0000000000' 1287,1288 CONTR. COMM. WITH DATA     72085128
008176 0200000000000000           10655+DEVL7CD  DC    X'0200000000000000' CONTR. COMM. W/DATA TAPE    @DM00385 72095128
00817E 0000088800000000           10656+DEVL8CD  DC    X'0000088800000000' CONTR.COM.WITH DATA 3886    @DM01553 72097028
008186 4410000000000000           10657+DEVL9CD  DC    X'4410000000000000'     CONT COMM. W/DATA 3540  @DL29R01 72097129
00818E 0000                       10658+DEVWORK  DC    Y(0)                                                       72100028
                         0818F    10659+DEVTYPE  EQU   DEVWORK+1                                                  72150028
                         08190    10660+DEVLIST  EQU   *                                                          72175028
008190 000080C6                   10661+DEVTP    DC    A(DEVL1ST)                                                 72200028
008194 00008146                   10662+         DC    A(DEVL1CD) .                                    @DM02977 72250028
008198 000080E6                   10663+DEVDASD  DC    A(DEVL2ST)                                                 72300028
00819C 0000814E                   10664+         DC    A(DEVL2CD)                                                 72350028
0081A0 00000000                   10665+DEVPRINT DC    A(0)                                                       72400028
0081A4 00008156                   10666+         DC    A(DEVL3CD)                                                 72450028
0081A8 00000000                   10667+DEVAPRT  DC    A(0)               NO STATUS MODIFIIER COMM.    @D34YDJR 72460034
0081AC 0000815E                   10668+         DC    A(DEVL4CD)         ADDR OF CWD-LIST FOR APRT    @D34YDJR 72470034
                                  10669+*EVPRSEL DC    A(0)                                                       72500028
                                  10670+*        DC    A(DEVL4CD)                                                 72550028
0081B0 00000000                   10671+DEV2560  DC    A(0)                                                       72575028
0081B4 00008166                   10672+         DC    A(DEVL5CD)                                                 72580028
0081B8 00008106                   10673+DEV1287  DC    A(DEVL6ST)                                                 72585028
0081BC 0000816E                   10674+         DC    A(DEVL6CD)                                                 72587028
0081C0 00000000                   10675+DEVTAPE  DC    A(0)                                            @DM00385 72590028
0081C4 00008176                   10676+         DC    A(DEVL7CD)                                      @DM00385 72592028
0081C8 00000000                   10677+DEV3886  DC    A(0)                                            @DM01553 72593028
0081CC 0000817E                   10678+         DC    A(DEVL8CD)                                      @DM01553 72594028
0081D0 00000000                   10679+DEV3540  DC    A(0)                                            @DL29R01 72594129
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0081D4 00008186                   10680+         DC    A(DEVL9CD)                                   @DL29R01 72596029
0081D8 00008126                   10681+DEV3895  DC    A(DEVLAST)          3895 STAT MOD CMD LIST ADDR @DY14857 72597034
0081DC 00000000                   10682+         DC    A(0)                NO CTRL CMDS WITH DATA      @DY14857 72598034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 10684+*                                                                  72650028
                                 10685+* FE= NO SPECIAL DEVICE                                            72700028
                                 10686+* FF= NOT DEFINED                                                  72750028
                                 10687+*        X'00' = TP                                      @DM11561 72800031
                                 10688+*        X'08' = DASD                                    @DM11561 72850031
                                 10689+*        X'10' = 1403 WITH UCS,3203,3211 OR 5203         @DM11561 72900031
                                 10690+*        X'18' = MFCM                                    @DM11561 72950031
                                 10691+*        X'20' = 1287,1288                               @DM11561 72952031
                                 10692+*        X'28' = MAGNETIC TAPE                           @DM11561 72960031
                                 10693+*        X'30' = 3886                                    @DM11561 72970031
                                 10694+*        X'38' = 3540                                    @DM11561 72980031
                                 10695+*        X'48' = 3895                                    @DY14857 72990034
                                 10696+*                                                                  73000028
0081E0 FFFFFFFFFFFFFFFF          10697+DEVTRTAB DC    256X'FF'                                            73050028
                        082E0    10698+DEVTREND EQU   *                                       @D32XDRP 73070032
0082E0                  08230    10699+         ORG   DEVTRTAB+X'50' .    MAGNETIC TAPE UNITS           73100028
008230 30303030                  10700+         DC    4AL1(DEVTAPE-DEVLIST) MAGN. TAPE UNITS  @DM00385 73150028
008234                  08210    10701+         ORG   DEVTRTAB+X'30' .    CARD READERS PUNCHES          73400028
008210 FEFEFE                    10702+         DC    3X'FE' .            1442N1,2596,2520B1,3525RP     73450028
008213 20                        10703+         DC    AL1(DEV2560-DEVLIST) 2560 (MFCM)                  73550028
008214 FE                        10704+         DC    X'FE' .             5424 (MFCU)                   73600028
008215                  081F0    10705+         ORG   DEVTRTAB+X'10' .    CARD READERS                  73650028
0081F0 FEFEFE                    10706+         DC    3X'FE' .            2501,2540R,3505               73700028
0081F3                  08200    10707+         ORG   DEVTRTAB+X'20' .    CARD PUNCHES                  73800028
008200 FEFEFEFE                  10708+         DC    4X'FE' .            2520B2,2520B3,2540P,1442N2,3525P 73850028
008204                  08220    10709+         ORG   DEVTRTAB+X'40' .    PRINTERS                      73950028
008220 FE                        10710+         DC    X'FE'                                             74000028
008221                  08221    10711+         ORG   DEVTRTAB+X'41' .    1443 PRINTER                  74050028
008221 FE                        10712+         DC    X'FE'                                             74100028
008222                  08222    10713+         ORG   DEVTRTAB+X'42' .    1403 WITH UCS                 74150028
008222 1010                      10714+         DC    2AL1(DEVPRINT-DEVLIST) 1403U,3211                 74200028
008224                  08225    10715+         ORG   DEVTRTAB+X'45'      APRT PRINTER          @D34YDJR 74210034
008225 18                        10716+         DC    AL1(DEVAPRT-DEVLIST)                    @D34YDJR 74220034
                                 10717+*        DC    AL1(DEVPRSEL-DEVLIST) PRINTER WITH SELECTIVE TAPE 74250028
008226                  0822A    10718+         ORG   DEVTRTAB+X'4A' .    3203 PRINTER          @DL29355 74251029
00822A 10                        10719+         DC    AL1(DEVPRINT-DEVLIST) 3203              @DL29355 74252029
00822B                  0822C    10720+         ORG   DEVTRTAB+X'4C' .    5203 PRINTERS                 74257528
00822C 1010                      10721+         DC    2AL1(DEVPRINT-DEVLIST) 5203,5203U       @DL29357 74272529
00822E                  081E0    10722+         ORG   DEVTRTAB+X'00' .    PRINTER KEYBOARD              74300028
0081E0 FE                        10723+         DC    X'FE'                                             74350028
0081E1                  08290    10724+         ORG   DEVTRTAB+X'B0' .    3270 (LOCAL)                  74360028
008290 FE                        10725+         DC    X'FE'                                             74370028
008291                  08292    10726+         ORG   DEVTRTAB+X'B2' .    CRT                           74373028
008292 FE                        10727+         DC    X'FE'                                             74376028
008293                  082A0    10728+         ORG   DEVTRTAB+X'C0' .    2260 (LOCAL)                  74380028
0082A0 FE                        10729+         DC    X'FE'                                             74390028
0082A1                  08240    10730+         ORG   DEVTRTAB+X'60' .    DASD                          74400028
008240 08080808                  10731+         DC    4AL1(DEVDASD-DEVLIST)                             74450028
                                 10732+*        DC    X'08' .             NO MORE SUPPORTED             74550028
008244                  08245    10733+         ORG   DEVTRTAB+X'65'      3330-11               @D34DDJR 74552034
008245 08                        10734+         DC    AL1(DEVDASD-DEVLIST)                    @D34DDJR 74554034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008246                    08247 10735+         ORG   DEVTRTAB+X'67'      3350                      @D34DDJR 74556034
008247 08                       10736+         DC    AL1(DEVDASD-DEVLIST)                          @D34DDJR 74558034
008248                    08248 10737+         ORG   DEVTRTAB+X'68' .    3340                              74560028
008248 080808                   10738+         DC    3AL1(DEVDASD-DEVLIST)                         @DL2W723 74570029
00824B                    082B0 10739+         ORG   DEVTRTAB+X'D0' .    TELEPROCESSING LINES              74600028
0082B0 000000                   10740+         DC    3AL1(DEVTP-DEVLIST)                               74650028
0082B3                    082B3 10741+         ORG   DEVTRTAB+X'D3' .    7770 AUDIO RESPONSE UNIT          74653028
0082B3 FE                       10742+         DC    X'FE'                                             74656028
0082B4                    08250 10743+         ORG   DEVTRTAB+X'70' .    PAPER TAPE                        74700028
008250 FE                       10744+         DC    X'FE'                                             74750028
008251                    08258 10745+         ORG   DEVTRTAB+X'78' .    PAPER TAPE                        74800028
008258 FEFE                     10746+         DC    2X'FE'                                            74850028
00825A                    082B5 10747+         ORG   DEVTRTAB+X'D5' .    PAPER TAPE READER                 74900028
0082B5 FEFE                     10748+         DC    2X'FE'                                            74950028
0082B7                    08252 10749+         ORG   DEVTRTAB+X'72' .    1255,1259                         74955028
008252 FE                       10750+         DC    X'FE'                                             74960028
008253                    08253 10751+         ORG   DEVTRTAB+X'73' .    1419P,1275                        74965028
008253 FE                       10752+         DC    X'FE'                                             74970028
008254                    08254 10753+         ORG   DEVTRTAB+X'74' .    1419S                     @DM04199 74972029
008254 FE                       10754+         DC    X'FE'                                       @DM04199 74974029
008255                    08257 10755+         ORG   DEVTRTAB+X'77' .    1287,1288 OCR                     74975028
008257 28                       10756+         DC    AL1(DEV1287-DEVLIST)                              74980028
008258                    0825C 10757+         ORG   DEVTRTAB+X'7C' .    3886                      @DM01553 74981028
00825C 38                       10758+         DC    AL1(DEV3886-DEVLIST)                      @DM01553 74982028
00825D                    0825D 10759+         ORG   DEVTRTAB+X'7D' .    3895 INSCRIBER            @D34AEJR 74984034
00825D 48                       10760+         DC    AL1(DEV3895-DEVLIST)                      @DY14857 74986034
00825E                    082B8 10761+         ORG   DEVTRTAB+X'D8' .    3270 CONTROL UNIT         @DM01406 74990028
0082B8 FE                       10762+         DC    X'FE'                                     @DM01406 74992028
0082B9                    082BC 10763+         ORG   DEVTRTAB+X'DC' .    3704/5                    @DM11561 74994031
0082BC FE                       10764+         DC    X'FE'                                     @DM01406 74996028
0082BD                    082BE 10765+         ORG   DEVTRTAB+X'DE'      3791L                     @DM11889 74998032
0082BE FE                       10766+         DC    X'FE'                                     @DM11889 74998432
0082BF                    08260 10767+         ORG   DEVTRTAB+X'80' .    3540  DISKETTE           @DM11561 75000031
008260 40                       10768+         DC    AL1(DEV3540-DEVLIST)                      @DL29R01 75010029
008261                    082E0 10769+         ORG   DEVTREND                                  @D32XDRP 75210032
                          00000 10770+         USING SYSS00,R0,RB        RESET TO LOW CORE BASE    @D34RDFG 75610034
                                10771+* SUPERVISOR - SGPMAIN - 5745-SC-SUP - REL. 34.0        @DY14187 00119034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  10773+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 00870031
                                  10774+*                                                                             * 00900031
                                  10775+*       THE SUPERVISOR IS ENTERED HERE WHEN A PROGRAM-CHECK                   * 00930031
                                  10776+*       INTERRUPT ARISES                                                      * 00960031
                                  10777+*                                                                             * 00990031
                                  10778+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 01020031

                           082E0 10780+ENTPCK  EQU   *                                                                 01080031

0082E0 909F 0850           00850 10782+        STM   R9,RF,ERA          SAVE REGISTERS TO LOW-CORE   @DA01309 07740031
0082E4 05E0                      10783+        BALR  RE,0               ESTABLISH ADDRESSABILITY                 07770031
                           082E6 10784+PMGRADR EQU   *                  BASE ADDRESS OF PAGE MANAGER ROUT.       07800031
                           082E6 10785+        USING *,RE,RF                                                     07830031
0082E6 9511 008F      0008F      10786+        CLI   PGMINTC+D1,PTEXC   IS THIS A PAGE TRANSL.EXCEPTION          07890031
0082EA 4780 E1C0      084A6      10787+        BE    PFFLIH             YES,GOTO HANDLE PAGE FAULT               07920031
0082EE 9512 008F      0008F      10788+        CLI   PGMINTC+D1,TRSPEC IS THIS A TRANSL.SPECIF.EXCEPTION       07950031
0082F2 4770 E018      082FE      10789+        BNE   ENABDAT            NO, SKIP 2 INSTRUCTIONS                  07980031
0082F6 58B0 0844           00844 10790+        L     RB,HEX1000         YES, RESTORE REG. 11 AND GO...           08010031
0082FA 47F0 0B0C      00B0C      10791+        B     HARDWTFA           ..TO HARD WAIT BECAUSE DAT DOWN          08040031
0082FE AD00 E34E      08634      10792+ENABDAT STOSM PSWMSK,M0          ENABLE DAT IN CURRENT PSW                08070031
                                  10793+*                              PREVIOUS INSTRUCTION IS MODIFIED         08100031
                                  10794+*                              BY INITDAT ROUTINE TO                    08130031
                                  10795+*       STOSM PSWMSK,SMDAT     ENABLE DAT IN CURRENT PSW                08160031
                                  10796+*                              WHEN CONTROL REGISTERS ARE SET UP        08190031
008302 9510 008F      0008F      10797+        CLI   PGMINTC+D1,STEXC   IS THIS A SEGMENT TRANSL.EXCEPT.         08220031
008306 4770 E038      0831E      10798+        BNE   NORMPCK            NO,GOTO HANDLE NORMAL PROGR.CHECK        08250031
00830A 58D0 002C           0002C 10799+        L     RD,PCOLDP+D4       YES,CHANGE IT TO ADDRESSING              08280031
00830E 4AD0 008C           0008C 10800+        AH    RD,PGMINF                                                   08310031
008312 50D0 002C           0002C 10801+        ST    RD,PCOLDP+D4       INCREASE INSTR.ADDR.IN OLD PSW           08340031
008316 58D0 0860           00860 10802+        L     RD,ERA+D16         RELOAD REGISTER FROM ERA                 08370031
00831A 9205 008F      0008F      10803+        MVI   PGMINTC+D1,M5      CHANGE CODE TO ADDRESSING EXCPT.         08400031

                           0831E 10805+NORMPCK EQU   *                                                           08460031

                                  10807+*       THIS HOOK DEPENDS ON REG 9,10,11 BEING STORED AT ERA.           08550031
                                  10808+*       THE FOLLOWING STATEMENTS ARE USED BY THE PD LOGICAL             08580031
                                  10809+*       TRANSIENT AREA DUMP ROUTINE FOR LINKAGE.                        08610031

00831E 47F0 E076      0835C      10811+PDTRANHK B     NOPDTRHK           BRANCH UNLESS LTA DUMP ACTIVE            08670031
008322 5890 0740           00740 10812+        L     R9,PDARPTR         LOAD PD AREA BASE REGISTER               08700031
008326 D200 E063 087F 08349 0087F 10813+        MVC   SVERID(L1),RID+1   SAVE CURRENT ID.             @DM01160 08730031
00832C 9200 087F      0087F      10814+        MVI   RID+1,SYSTEMID     PREVENT DESTROY OF SAVE AREA @DM01160 08760031
                           14A60 10815+        USING PDAREA,R9          USE R9 AS BASE REGISTER                  08790031
008330 D200 E06F 0753 08355 00753 10816+        MVC   PDTIKSV,TIK+1      SAVE TASK IDENTIFIER                     08880031
008336 D200 E073 067F 08359 0067F 10817+        MVC   PDPIKSV,PIK+1      SAVE PARTITION IDENTIFIER                08910031
00833C 41B0 0850           00850 10818+        LA    RB,ERA             GET ADDR OF SAVE AREA OF REG 9-11        08940031
008340 58E0 0864           00864 10819+        L     RE,ERA+D20                                                  08970031
008344 45A0 9060           14AC0 10820+        BAL   RA,PDENTRY1        GO TO LTA DUMP ROUTINE                   09000031
008348 9200 087F      0087F      10821+RESTORID MVI   RID+1,ZERO         RESTORE THE RID              @DM01160 09030031
                           08349 10822+SVERID  EQU   RESTORID+1         SAVING CURRENT RID           @DM01160 09060031
00834C 58E0 0778           00778 10823+        L     RE,APMGR           RELOAD RE                                09090031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008350 989D 0850            00850 10824+         LM    R9,RD,ERA          RESTORE REGISTERS            @DM01160 09120031
                            08355 10825+PDTIKSV  EQU   *+1                ORIGINAL TIK SAVE                     09210031
008354 9200 0753      00753       10826+         MVI   TIK+1,ZERO         RESTORE TIK                           09240031
                            08359 10827+PDPIKSV  EQU   *+1                ORIGINAL PIK SAVE                     09300031
008358 9200 067F      0067F       10828+         MVI   PIK+1,ZERO         RESTORE PIK                           09330031
                            0835C 10829+NOPDTRHK EQU   *                                                       09390031

00835C 9518 087F      0087F       10831+         CLI   RID+D1,PFARID      IF PROG. CHECK IN PHO                 09510031
008360 4770 E092      08378       10832+         BNE   NPHOPC            APPENDAGE ROUTINE :                   09540031
008364 4530 E4EA            087D0 10833+         BAL   R3,RESPHO          CANCEL                                09570031
008368 9228 0BFD      00BFD       10834+         MVI   HLDPSW,PCOPSW      IDENTIFY OLD PSW             @DM04113 09600031
00836C 58B0 008C            0008C 10835+         L     RB,PGMINF          GET PC INTERRUPTION CODE     @DM04113 09630031
008370 4590 0BAA            00BAA 10836+         BAL   R9,GENENT          GENERAL ENTRY                @DM04113 09660031
008374 47F0 09E8      009E8       10837+         B     ERR20                                                    09690031
                            08378 10838+NPHOPC   EQU   *                                                       09720031

                                  10840+******************************************************************* 09810031
                                  10841+*        THE FOLLOWING PIECE OF CODING HAS BEEN INSERTED HERE     * 09840031
                                  10842+*        BECAUSE ADDRESS VALIDATION IN THE APPROPRIATE ROUTINES   * 09870031
                                  10843+*        WOULD HAVE A BAD PERFORMANCE IMPACT                      * 09900031
                                  10844+******************************************************************* 09930031

008378 9101 0029      00029       10846+         TM    PCOLDP+D1,PPBIT    USER PROGRAM CHECK                    09990031
00837C 4710 E192      08478       10847+         BO    USERPCK            YES, BRANCH                           10020031
008380 950C 087F      0087F       10848+         CLI   RID+D1,APPENDID    PROGRAM CHECK IN I/O APP.    @DA06796 10020633
008384 4780 E192      08478       10849+         BE    USERPCK            YES, HANDLE AS USER PR CHECK @DA06796 10021233
008388 9508 087F      0087F       10850+         CLI   RID+D1,X'08'        LOOK FOR SYS OR USER DISP    @D33PADO 10022033
00838C 4770 E0B2      08398       10851+         BNE   NOTUSYS            BR IF NOT SYSTEM OR USER     @D33PADO 10024033
008390 91F0 0029      00029       10852+         TM    PCOLDP+D1,X'F0'    LOOK FOR USER WITH KEY 0     @D33PADO 10026033
008394 4770 E192      08478       10853+         BNZ   USERPCK            EXIT IF NOT KEY 0            @D33PADO 10044033
                            08398 10854+NOTUSYS  EQU   *                                               @D33PADO 10048033
                            06B70 10855+         USING CCWTADR,R9                                              10050031
008398 5890 077C            0077C 10856+         L     R9,ACCWT           POINTER TO CCW TRANSLATION            10080031
00839C 41C0 958E            070FE 10857+         LA    RC,PCKADR7         PCK IN CCWTR                 @DA09738 10087034
0083A0 59C0 002C            0002C 10858+         C     RC,PCKADR                                       @DA09738 10094034
0083A4 4780 9E32      079A2       10859+         BE    ERROR1                                          @DA09738 10101034
0083A8 41C0 9648            071B8 10860+         LA    RC,PCKADR6         PCK IN CCWTR                          10110031
0083AC 59C0 002C            0002C 10861+         C     RC,PCKADR                                                10140031
0083B0 4780 9E32      079A2       10862+         BE    ERROR1                                                   10170031
0083B4 41C0 9440            06FB0 10863+         LA    RC,PCKADR5         PCK IN CCWTR                          10200031
0083B8 59C0 002C            0002C 10864+         C     RC,PCKADR                                                10230031
0083BC 4780 9E32      079A2       10865+         BE    ERROR1                                                   10260031
0083C0 41C0 921E            06D8E 10866+         LA    RC,PCKADR4         PCK IN CCWTR                          10290031
0083C4 59C0 002C            0002C 10867+         C     RC,PCKADR                                                10320031
0083C8 4780 9E32      079A2       10868+         BE    ERROR1                                                   10350031
0083CC 58B0 0844            00844 10869+         L     RB,HEX1000         RESTORE REG. 11              @D34RDFG 10380034
0083D0 4190 B3AE            013AE 10870+         LA    R9,PCKSVC60+L'PCKSVC60 PCK IN GETDADR           @DM01266 10410031
0083D4 5990 002C            0002C 10871+         C     R9,PCKADR          ADDRESS OF CCW INVALID       @DM01266 10440031
0083D8 5890 0850            00850 10872+         L     R9,ERA             RESTORE REG.S FOR GETDADR    @DM01266 10470031
0083DC 58E0 0864            00864 10873+         L     RE,ERA+D20         IF PCK OCCURRED AT THIS ADDR.@DM01266 10500031
0083E0 4780 B418      01418       10874+         BE    GETD3              RETURN TO GETDADR ERROR EXIT @DM01266 10530031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0083E4 58E0 0778            00778 10875+         L     RE,APMGR           RESTORE BASE OF PAGE MANAGER @DM01266 10560031
0083E8 4190 E122            08408 10876+         LA    R9,PCKATAB         ADDRESS OF PCK.ADR.TABLE              10590031
0083EC 58F0 002C            0002C 10877+         L     RF,PCKADR          ADDRESS PART OF PCK.OLD PSW           10620031
0083F0 9500 9000      00000       10878+PCKCOMP  CLI   D0(R9),X'00'       END OF TABLE REACHED                  10650031
0083F4 4770 0B16      00B16       10879+         BNE   SUPPCK             YES,HARD WAIT                         10710031
0083F8 59F9 0000            00000 10880+         C     RF,0(R9)           PCK.ADDRESS STORED                    10860031
0083FC 4199 0004            00004 10881+         LA    R9,D4(R9)          NEXT ENTRY IN TABLE                   10890031
008400 4770 E10A      083F0       10882+         BNE   PCKCOMP            TEST NEXT ENTRY                       10920031
008404 47F0 09F2      009F2       10883+         B     ERR25              CANCEL USER                           10950031
008408                            10884+PCKATAB  DS    0F                 TABLE OF PCK.ADDRESSES                10980031
008408 00006186                   10885+         DC    A(PCKADR1)         PHASE NAME IN FETCH                   11010031
00840C 000061CA                   10886+         DC    A(PCKADR1A)        PHASE NAME IN FETCH          @DL29ZCJ 11040031
008410 0000627A                   10887+         DC    A(PCKADR1B)        PHASE NAME IN FETCH          @DL29ZCJ 11070031
008414 00006290                   10888+         DC    A(PCKADR1C)        PHASE NAME IN FETCH          @DL29ZCJ 11100031
008418 0000667A                   10889+         DC    A(PCKADR1D)        PHASE NAME IN FETCH          @DL29ZCF 11130031
00841C 000061F0                   10890+         DC    A(PCKADR1E)        LIST ADDRESS IN FETCH        @DA04237 11140031
008420 0000623C                   10891+         DC    A(PCKADR2E)        LIST ADDRESS IN FETCH        @DY13570 11140234
008424 00006AF4                   10892+         DC    A(PCKADR1F)        ADCON ADDR IN FETCH          @DA07588 11142033
008428 000012EC                   10893+         DC    A(PCKADR2)         PROGRAM CHECK IN VALIDATION ROUTINE   11160031
00842C 0000E896                   10894+         DC    A(PCKSVC07)        PCK. IN SVC07 ROUTINE                 11190031
008430 0000F45E                   10895+         DC    A(PCKSVC42)        PROG CHECK IN SVC42 ROUTINE  @DY11215 11200034
008434 0000E21A                   10896+         DC    A(PCKSVC02)        PCK. IN SVC02                         11250031
008438 0000E8E4                   10897+         DC    A(PCKSV29A)        PCK.IN SVC29                          11340031
00843C 0000E8F0                   10898+         DC    A(PCKSV29B)        PCK.IN SVC29                          11370031
008440 0000D25C                   10899+         DC    A(PCKEXCP1)        ADDRESS OF FIRST CCW IN SVC0          11520031
008444 0000D260                   10900+         DC    A(PCKEXCP2)        ADDRESS OF FIRST CCW IN SVC0          11550031
008448 0000D484                   10901+         DC    A(PCKCBF1)         USER DATA AREA IN CONS.BUF.ROUT.      11610031
00844C 0000D48E                   10902+         DC    A(PCKCBF2)         USER DATA AREA IN CONS.BUF.ROUT.      11640031
008450 0000B646                   10903+         DC    A(PCKSVC65)        ILLEGAL ADDR.IN SVC65                 11730031
008454 0000B654                   10904+         DC    A(PCKCDL1)         ANCHOR TABLE OVERLAYED       @DY11894 11740034
008458 0000B6AA                   10905+         DC    A(PCKCDL2)         ANCHOR TABLE OVERLAYED       @DY11894 11746034
00845C 0000B8E6                   10906+         DC    A(PCKGVIS1)        THE                          @DY11894 11760634
008460 0000BA82                   10907+         DC    A(PCKGVIS2)        USER                         @DY11894 11760934
008464 0000BAAE                   10908+         DC    A(PCKGVIS3)        OVERLAYED                    @DY11894 11761234
008468 0000BAB6                   10909+         DC    A(PCKGVIS4)        HIS                          @DY11894 11761534
00846C 0000BADA                   10910+         DC    A(PCKGVIS5)        ANCHOR TABLE                 @DY11894 11761834
008470 0000953E                   10911+         DC    A(PCKSVC67)        ILLIGAL ADDR IN SVC 67                11820031
008474 0000B46E                   10912+         DC    A(PCKSVC44)        ILLEGAL ADDR.OF SD-RECORD    @DF00991 11880031
                                  10913+*        DO NOT INSERT A CONSTANT HERE WHEN IT STARTS WITH X'00'       12000031
                                  10914+*        ANY OTHER CHARACTER INDICATES  END OF THE PREVIOUS TABLE      12030031
                      08478       10915+USERPCK  EQU   *                                                       12060031
008478 9228 0BFD      00BFD       10916+         MVI   HLDPSW,PCOPSW      IDENTIFY OLD PSW                      12480031
00847C 58B0 008C            0008C 10917+         L     RB,PGMINF          GET PC INTERRUPTION CODE              12510031
008480 950C 087F      0087F       10918+         CLI   RID+D1,APPENDID    PROGRAM CHECK IN I/O APP     @DA06796 12530033
008484 4780 E1B8      0849E       10919+         BE    APPPCHK            YES, DON'T ALLOW EXIT RTN    @DA06796 12532033
008488 4590 0BAA            00BAA 10920+         BAL   R9,GENENT          GENERAL ENTRY                         12540031
00848C 58D0 0894            00894 10921+         L     RD,APBASE          BASE OF AP ROUTINES          @D34RDFG 12580034
                            0E722 10922+         USING SGAP,RD                                       @D34RDFG 12590034
008490 4550 D882            0EFA4 10923+         BAL   R5,GETPC           SET POINTER TO TASK'S ENTRY           12600031
008494 1233                       10924+         LTR   R3,R3              IS EXIT ROUTINE AVAILABLE             12630031
008496 4720 D88A      0EFAC       10925+         BP    PCROUT             YES,SET UP FOR USER EXIT              12660031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   10926+         DROP  RD                                                @D34RDFG 12670034
00849A 47F0 09E8      009E8        10927+         B     ERR20              GOTO CANCEL                            12720031
                                   10928+*        IF THE ROUTINE ADDRESS IS ZERO,NO LINKAGE HAS BEEN ESTABLISHED 12750031
                                   10929+*        IF IT IS NEGATIVE,THE ROUTINE IS CURRENTLY IN USE              12780031


00849E 4590 0BAA            00BAA 10931+APPPCHK  BAL   R9,GENENT          GOTO CANCEL                @DA06796 12802033
0084A2 47F0 09E8      009E8        10932+         B     ERR20              DIRECTLY AFTER GENERAL ENTRY @DA06796 12804033
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  10935+*********************************************************************** 13500031
                                  10936+*                                                                     * 13530031
                                  10937+*              PAGE FAULT FIRST LEVEL INTERRUPT HANDLER               * 13560031
                                  10938+*                                                                     * 13590031
                                  10939+*********************************************************************** 13620031

                            084A6 10941+PFFLIH   EQU   *                                                        13680031
0084A6 AD04 E34E      08634       10942+         STOSM PSWMSK,SMDAT       ENABLE DAT IN CURRENT PSW             13710031
0084AA 4190 E91E            08C04 10943+         LA    R9,ENQU            SET UP RETURN FOR GENENT              13950031
0084AE 58B0 0844            00844 10944+         L     RB,HEX1000         LOAD BASE ADDRESS                     13980031
0084B2 9228 0BFD      00BFD       10945+         MVI   HLDPSW,PCOPSW      IDENTIFY FOR GENENT PCK INT.          14010031
0084B6 9500 073D      0073D       10946+         CLI   SELECT,ZERO        SYSTEM TASK INTERRUPTED ?             14040031
0084BA 4780 E1FC      084E2       10947+         BE    NORMPF             NO,HANDLE PAGE FAULT FROM USER TASKFR 14070031
0084BE 9507 073D      0073D       10948+         CLI   SELECT,SUPVR       SUPERVISOR TASK INTERRUPTED ?         14100031
0084C2 4780 0BAA      00BAA       10949+         BE    GENENT             YES,HANDLE PF FROM FETCH              14130031
0084C6 9506 073D      0073D       10950+         CLI   SELECT,PGIN        PAGEIN TASK INTERRUPTED      @DL2982F 14190031
0084CA 4780 0BAA      00BAA       10951+         BE    GENENT             YES,HANDLE PAGE FAULT        @DL2982F 14220031
0084CE 9518 087F      0087F       10952+         CLI   RID+D1,PFARID      PF IN PHO APPENDAGE:                  14310031
0084D2 4780 E244      0852A       10953+         BE    BRPFA              CANCEL                                14340031
0084D6 950C 087F      0087F       10954+         CLI   RID+D1,APPENDID    PAGE FAULT IN IO APP         @DM07003 14430031
0084DA 4780 E1FC      084E2       10955+         BE    NORMPF             YES,HANDLE AS SUCH           @DM07003 14460031
0084DE 47F0 0B16      00B16       10956+         B     SUPPCK             NO,HARD WAIT                          14520031
0084E2 48A0 0752            00752 10957+NORMPF   LH    RA,TIK             LOAD USER KEY                         14550031
0084E6 4AA0 06AA            006AA 10958+         AH    RA,YPIBTAB         ADDRESS OF USER PIB                   14580031
0084EA 9103 0028      00028       10959+         TM    PCOLDP,ENABLE      ENABLED USER TASK INTERRUPTED ?       14610031
0084EE 4770 0BE0      00BE0       10960+         BNZ   PFGENENT           NO,HANDLE PF USING ROUTINE IDENT.     14640031
                            084F2 10961+DISABLPF EQU   *                  SETUP EXIT TO BRANCH TO ENQ ROUT.     14670031
0084F2 48C0 087E            0087E 10962+         LH    RC,RID             LOAD ROUTINE IDENTIFIER               14700031
0084F6 9528 087F      0087F       10963+         CLI   RID+1,GATENR       RID POINTS TO RESOURCE TABLE ?        14730031
0084FA 474C E22C      08512       10964+         BL    BRTAB(RC)          NO,BRANCH VIA BRANCH TABLE            14760031
0084FE 42C0 A008            00008 10965+SAVERID  STC   RC,PIBRID          YES,SAVE RID INTO PIB.                14790031
008502 9603 A004      00004       10966+         OI    PIBDATFL,CINITSVC+CSVRET SETUP PIB TO CALL INITSVC       14820031
008506 41CC 08E6            008E6 10967+         LA    RC,RETAB(RC)       GET ADDRESS OF RESOURCE BYTE          14850031
00850A 9200 C000      00000       10968+         MVI   D0(RC),ZERO        SET RESOURCE TO NOT AVAILABLE         14880031
00850E 47F0 E2C2      085A8       10969+         B     ATTACHSA           GOTO ATTACH SPECIAL SAVE AREA         14910031
                            08512 10970+BRTAB    EQU   *                                                        14940031
008512 47F0 0B0E      00B0E       10971+         B     HARDWTFB           SYSTEM ERROR CONDITION:HARD WAIT ]    14970031
008516 47F0 E2B6      0859C       10972+         B     PFREENTR           GOTO HANDLE REENTRANT ROUTINE         15000031
00851A 47F0 E250      08536       10973+         B     PFUSER             USER ERROR CONDITION: CANCEL ]        15030031
00851E 47F0 E270      08556       10974+         B     PFAPPEND           PF IN TP I/O APPENDAGE:CANCEL ]       15060031
008522 47F0 E27C      08562       10975+         B     PFRESVC            PF.REQUIRES RE-SUC                    15090031
008526 47F0 E260      08546       10976+         B     TCHCK              PAGE FAULT IN DISPATCHER     @D33PAGA 15454134
00852A 4530 E4EA            087D0 10977+BRPFA    BAL   R3,RESPHO          PF IN PHO APPENDAGE: CANCEL           15454734
00852E 58B0 0844            00844 10978+         L     RB,HEX1000         LOAD BASE REGISTER           @D34RDFG 15454834
008532 47F0 09E0      009E0       10979+         B     ERR16                                           @DM02205 15454934
                            08536 10980+PFUSER   EQU   *                                                        15455134
008536 5860 086C            0086C 10981+         L     R6,DISPAD          RELOAD EXIT ADDRESS          @DM05356 15455234
00853A 48A0 0752            00752 10982+         LH    RA,TIK             LOAD TASK ID                          15455334
00853E 4AA0 06AA            006AA 10983+         AH    RA,YPIBTAB         ADDRESS OF USER PIB                   15455434
008542 47F0 09DE      009DE       10984+         B     ERR15              GOTO CANCEL USER                      15455534
                            08546 10985+TCHCK    EQU   *                                                  @D34UDFR 15457934
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008546 9180 0830      00830       10986+         TM    SUPFLAG,TIMERSET   CPU TIMER IN USE             @D34UDFR 15458034
00854A 0789                       10987+         BCR   Z,R9               BRANCH IF NOT IN USE         @D34UDFR 15460034
00854C 947F 0830      00830       10988+         NI    SUPFLAG,XFF-TIMERSET DO NOT COUNT WITH THIS TIME@D34UDFR 15462034
008550 B208 0838      00838       10989+         SPT   HTIME              SET TIMER TO HIGH VALUE      @D34UDFR 15464034
008554 07F9                       10990+         BR    R9                 BRANCH TO ENQU               @D33PAGA 15474033
                            08556 10991+PFAPPEND EQU   *                                                     15480031
008556 5860 086C            0086C 10992+         L     R6,DISPAD          RELOAD EXIT ADDRESS          @DM05356 15540033
00855A 5830 003C            0003C 10993+         L     R3,IOOPSW+4        RELOAD PUB POINTER                    15600031
00855E 47F0 0A2E      00A2E       10994+         B     ERR36              GOTO CANCEL USER                      15630031
                            08562 10995+PFRESVC  EQU   *                  SETUP USER TASK TO REISSUE SVC        15690031
008562 1879                       10996+         LR    R7,R9              PERFORM ENQU AFTER RESVC              15720031
008564 47F0 B00A      0100A       10997+         B     PFWAIT             SETUP TASK TO REISSUE SVC             15780031
                                  10998+         DROP  RB                                        @D34RDFG 15810034
                            08568 10999+RWAIT    EQU   *                                                     15840031
008568 909E 0850            00850 11000+         STM   R9,RE,ERA          SAVE R9 TO RC OF CALLER TO ERA        15870031
00856C 4190 E344            0862A 11001+         LA    R9,PFEXIT          SETUP EXIT TO DISPATCHER              15900031
                            08570 11002+SETUPSA  EQU   *                                                     15930031
008570 BEC7 0025            00025 11003+         STCM  RC,M7,SVOLDP+D5    SETUP A PSW USING PCK.OLDPSW          15960031
008574 AD00 0020      00020       11004+         STOSM SVOLDP,M0          USE CURRENT SYSTEM MASK               15990031
008578 920C 0021      00021       11005+         MVI   SVOLDP+D1,ECBIT+MCBIT SETON MC,CC BIT.SETOFF PP-BIT    16020031
00857C 9200 0022      00022       11006+         MVI   SVOLDP+D2,M0       CLEAR MASK IN CASE OF VSAM   @DM06973 16050031
008580 9220 0BFD      00BFD       11007+         MVI   HLDPSW,SVCOPSW     SETUP FOR EXEC INSTRUCTION            16080031
008584 9528 087F      0087F       11008+         CLI   RID+D1,GATENR       GATING ROUTINE INTERRUPTED            16110031
008588 4740 E2B6      0859C       11009+         BL    PFREENTR           NO,HANDLE AS REENTRANT ROUT.          16140031
00858C 48C0 087E            0087E 11010+         LH    RC,RID             GET ROUTINE IDENTIFIER                16170031
008590 48A0 0752            00752 11011+         LH    RA,TIK             GET &TIK VALUE                        16200031
008594 4AA0 06AA            006AA 11012+         AH    RA,YPIBTAB         GET ADDRESS OF USER PIB               16230031
008598 47F0 E218      084FE       11013+         B     SAVERID            GOTO SETUP INITSVC                    16260031
                            0859C 11014+PFREENTR EQU   *                                                     16290031
00859C 48A0 0752            00752 11015+         LH    RA,TIK             GET USER ID                           16320031
0085A0 4AA0 06AA            006AA 11016+         AH    RA,YPIBTAB         GET ADDRESS OF USER TASK PIB          16350031
0085A4 9601 A004      00004       11017+         OI    PIBDATFL,CSVRET    SET ON PIBDATFL TO CALL SVRETURN      16380031
                            085A8 11018+ATTACHSA EQU   *                                                     16410031
0085A8 58B0 A008            00008 11019+         L     RB,PIBSAV2         GET ADDRESS OF SPECIAL SAVE AREA      16440031
                            00000 11020+         USING SVEARA,RB                                             16470031
0085AC 4400 0BF8            00BF8 11021+         EX    R0,SYSSAVE0        SAVE OLD PSW INTO SAVEAREA            16500031
0085B0 D217 B010 0850 00010 00850 11022+         MVC   SVER09(L24),ERA    SAVE REGISTERS SAVED IN ERA           16530031
0085B6 90F8 B028            00028 11023+         STM   RF,R8,SVER0F       SAVE ALL OTHER REGISTERS              16560031
0085BA D200 B0D4 09AA 000D4 009AA 11024+         MVC   SAVRAID(L1),ACCTRAID  SAVE RUNNING ACC.ID               16620031
0085C0 07F9                       11025+         BR    R9                 EXIT VIA REG R9.                      16680031

                                  11027+         DROP  RB                                                    16740031
                            00000 11028+         USING SVEARA,R8                                             16770031
                            085C2 11029+SVRETURN EQU   *   INITIALIZE RETURN TO A SUPERVISOR ROUTINE         16800031
0085C2 94FC A004      00004       11030+FREESPSA NI    PIBDATFL,XFF-CSVRET-CINITSVC  RESET PIBDATFL         16830031
0085C6 5880 A008            00008 11031+         L     R8,PIBSAV2         LOAD ADDRESS OF SPECIAL SAVEAREA      16860031
0085CA AD00 8008      00008       11032+         STOSM SVEPSW,M0          USE CURRENT SYSTEM MASK      @DA05788 16870032
0085CE 920C 8009      00009       11033+         MVI   SVEPSW+D1,ECBIT+MCBIT CREATE A CORRECT PSW      @DA05788 16880032
0085D2 D207 0850 8008 00850 00008 11034+         MVC   ERA(L8),SVEPSW     MAKE PSW ADDRESSABLE                  16890031
0085D8 D200 09AA 80D4 009AA 000D4 11035+         MVC   ACCTRAID(L1),SAVRAID  RESTORE RUNNING ACC.ID            16950031
0085DE 9898 8010            00010 11036+         LM    R9,R8,SVER09       RELOAD REGISTERS OF SV.ROUTINE        17010031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0085E2 8200 0850      00850        11037+         LPSW  ERA                REENTER INTERRUPTED SV.ROUTINE        17130031
                                   085E6 11038+INITSVC  EQU   *   INITIALIZE RETURN TO A GATED SVC                17160031
0085E6 1B55                        11039+         SR    R5,R5                                                    17190031
0085E8 4350 A008                   00008 11040+         IC    R5,PIBRID                                          17220031
0085EC 4050 087E                   0087E 11041+         STH   R5,RID             SET RID TO THE SAVED VALUE      17250031
0085F0 4155 08E6                   008E6 11042+         LA    R5,RETAB(R5)       GET ADDRESS OF RESOURCE BYTE    17280031
0085F4 9283 5000      00000        11043+         MVI   D0(R5),READY       FREE THE RESOURCE                      17310031
0085F8 47F0 E2DC      085C2        11044+         B     FREESPSA           GOTO ACTIVATE SVC ROUTINE              17340031
                                   085FC 11045+DETASK   EQU   *                                                  17400031
0085FC 4880 067E                   0067E 11046+         LH    R8,PIK             GET PIK OF PARTITION            17430031
008600 8880 0003                   00003 11047+         SRL   R8,3               GET PIK/8                       17460031
008604 4188 0057                   00057 11048+         LA    R8,LLBNDBG-D2(R8)  GET BND CONDITION FOR THIS TASK    17490031
008608 4158 08E6                   008E6 11049+         LA    R5,RETAB(R8)       GET ADDR.OF TRT-BYTE            17520031
00860C 9583 5000      00000        11050+         CLI   D0(R5),READY       HAS PARTITION ALREADY BEEN             17550031
                                                  11051+*                  REACTIVATED ?                          17580031
008610 4780 E332      08618        11052+         BE    NODEACTT           YES, SKIP DEACTIVATION                 17610031
008614 4280 A000                   00000 11053+         STC   R8,PIBFLG          SET TASK LLBND                  17640031
008618 94EF A004      00004        11054+NODEACTT NI    PIBDATFL,XFF-CDEACT RESET DELAY INDICATOR                17670031
00861C 07F6                        11055+         BR    R6                 RETURN TO EXIT ROUTINE                 17700031
                                   0861E 11056+MOVECCB  EQU   * MOVE INFORM.FROM COPIED CCB TO CCB IN USER PARTITION 17760031
00861E 94FB A004      00004        11057+         NI    PIBDATFL,XFF-CMOVECCB DEACTIVATE MOVECCB                 17790031
008622 5890 077C                   0077C 11058+         L     R9,ACCWT           BASE ADDRESS OF CCW TRANSL      17820031
008626 4580 9DEA                   0795A 11059+         BAL   R8,CCBMOVE         GOTO SETUP CCB                  17850031
                                   02EDA 11060+         USING INTRTN,R9          RESTORE STANDARD ADDRESSING     17880031
                                   0862A 11061+PFEXIT   EQU   *                                                  17910031
00862A 58B0 0844                   00844 11062+         L     RB,HEX1000         RELOAD BASE-REGISTER RB @D34RDFG 17940034
00862E 5860 086C                   0086C 11063+         L     R6,DISPAD          ADDRESS OF DISPATCHER  @DM05356 17970033
008632 07F6                        11064+         BR    R6                 GOTO EXIT                              18000031
                                                  11065+*                                                       18030031
                                                  11066+*                                                       18060031
                                                  11067+*                                                       18090031
008634 0000                        11068+PSWMSK   DC    H'0'               WORKFIELD                           18120031

                                   0A2E6 11070+         USING PMGRADR+X'2000',RD SET THIRD BASE REG.FOR @DM03345 18180031
                                                  11071+*                  PAGE MANAGER           @DM03345 18210031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008638                           11073+         DS    0F                                                  @DA08166 18600933
008638 0000000000000000          11074+PGQU     DC    (1+16)F'0'          PAGE I/O REQUEST QUEUE          @DA08166 18602433
00867C                           11075+PFSA     DS    7F                  TEMP. SAVE AREA FOR TFREE       @DA08166 18603933
008698                           11076+         DS    7F                  EXTENTION OF TEMP SAVE AREA     @DA08166 18604533
0086B4 00000000                  11077+PFSAR2   DC    F'0'                SAVEAREA                        @DA08166 18605433
0086B8 00019800                  11078+APT      DC    A(PT)               ADDRESS OF PAGE TABLE           @DA08166 18606033
0086BC 0000000000000000          11079+F0       DC    2F'0'               THIS CONST. MUST PRECEED THE    @DA08166 18606333
                                 11080+*                                  PFA-TABLE (IF GENERATED )       @DA08166 18606633
                                 11081+*                                                                  @DA08166 18609033
                                 11082+*              PFA-TABLE                                           @DA08166 18609333
                                 11083+*                                                                  @DA08166 18609633
                                 11084+*              THE TIK/2 SERVES AS INDEX FOR EXCESSING THE         @DA08166 18609933
                                 11085+*              ADDR OF HE PAGE FAULT APPENDAGE ROUTINE OF THE      @DA08166 18610233
                                 11086+*              ACTIVE TASK                                         @DA08166 18610533
                                 11087+*                                                                  @DA08166 18610633
0086C4 0000000000000000          11088+PFATAB   DC    30F'0'                                              @DA08166 18610833
00873C 000086BC                  11089+APFATAB  DC    A(PFATAB-8)                                         @DA08166 18611133
008740 0000                      11090+WIDSVE   DC    H'0'                WORK FIELD                      @DA08166 18613533
008742 0000                      11091+WID      DC    H'0'                THE LOW ORDER 4 BITS WILL       @DA08166 18613833
                                 11092+*                                  CONTAIN THE ID OF THE USER      @DA08166 18614133
                                 11093+*                                  TASK WHICH WAS WAITING          @DA08166 18614433
                                 11094+*                                  FOR A PAGE                      @DA08166 18614533
008744 00                        11095+STKSVE   DC    X'00'                                               @DA08166 18614733
008745 00                        11096+TIKSVE   DC    X'00'               CONT. TIK OF TASK WAITING       @DA08166 18615033
                                 11097+*                                  FOR A DELAYED EXCHANGE REQ.     @DA08166 18615333
008746 0000
008748 0000000000000000          11098+FIXWTAB  DC    6F'0'               WAITERS TABLE                   @DA08166 18615933
                                 11099+*                                  BYTE  1 : ID OF WAITING TASK    @DA08166 18616233
                                 11100+*                                  BYTES 2-4 :  ADDR OF PAGE OR    @DA08166 18616533
                                 11101+*                                               PAGE FRAME         @DA08166 18616833
008760 00000000                  11102+R1SVE    DC    A(0)                                                @DA08166 18617133
008764 00000000                  11103+R2SVE    DC    A(0)                                                @DA08166 18617433
008768                           11104+APFTXP   DS    F                                                   @DA08166 18617733
00876C 00008748                  11105+AFIXWTAB DC    A(FIXWTAB)                                          @DA08166 18618333
008770 00008638                  11106+AEOPGQU  DC    A(PGQU)                                             @DA08166 18618633
008774 0001020408102040          11107+BITTAB   DC    X'0001020408102040' TABLE USED TO SET BIT           @D34RDRP 18619234
                                 11108+*                                  IN DEFIXSW                      @DA08166 18619533
00877C 0004                      11109+H4       DC    H'4'                                                @DA08166 18620133
00877E 4000                      11110+HEX4000  DC    H'16384'                                            @DA08166 18620433
008780 00000000                  11111+RASDIFF  DC    F'0'                WORK FIELD FOR SVC-GETREAL      @DA08166 18620733




008784 0000A2E6                  11113+BSEADRS  DC    A(PMGRADR+X'2000')                                  @DA08166 18621333
008788 000082E6                  11114+         DC    A(PMGRADR)          BASE ADDRESSES OF PAGE MAN.     @DA08166 18621633
00878C 000092E6                  11115+BSEREG2  DC    A(PMGRADR+X'1000')                                  @DA08166 18621933



                                 11117+*                                                                  @DA08166 18622833
                                 11118+*    ENTRY POINT OF THE PFREE-ROUTINE FOR BTAM                     @DA08166 18623133
                                 11119+*                                                                  @DA08166 18623433
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            08790 11121+SVPFREE  EQU   *                                                  @DA08166 18624033
008790 58F0 E4A6            0878C 11122+         L     RF,BSEREG2          LOAD 2ND BASE REGISTER       @DA08166 18624333
008794 900D E396            0867C 11123+         STM   R0,RD,PFSA          SAVE BTAM'S REGISTER         @DA08166 18624633
008798 98DF E49E            08784 11124+         LM    RD,RF,BSEADRS       LOAD PMGR BASEREGS           @DA08166 18624933
00879C 4530 F0A8            0938E 11125+         BAL   R3,BTPFREE          PFREE LIST                   @DA08166 18625233
0087A0 1BFF                       11126+BTMRC0   SR    RF,RF               INDICATE SUCESSFULL          @DA08166 18625533
0087A2 47F0 E4C4      087AA       11127+         B     BTRET                                            @DA08166 18625833
0087A6 41F0 000C            0000C 11128+BTMRC12  LA    RF,12               INDICATE INVALID PARAMETER   @DA08166 18626133
0087AA 980D E396            0867C 11129+BTRET    LM    R0,RD,PFSA          RESTORE REGISTERS            @DA08166 18626433
0087AE 07F3                       11130+         BR    R3                  RETURN TO BTAM               @DA08166 18626733
                                  11131+*   THIS ROUTINE IS CALLED WHENEVER THE SYSTEM IS GOING TO ENTER        18628433
                                  11132+*   SYSTEM-WAIT - IF THE TIME-INTERVAL SINCE LAST MEASURING OF @DA08166 18629133
                                  11133+*   PAGING-ACTIVITY IS GREATER THAN OR EQUAL M SECONDS,        @DA08166 18629433
                                  11134+*   PAGING-ACTIVITY IS MEASURED AGAIN - IF THERE IS A LOW PAGING-       18630533
                                  11135+*   ACTIVITY,IT IS TRIED TO REACTIVATE A PARTITION              @DA08166 18631233



                            087B0 11137+REACTUC  EQU   *                   ENTRY POINT FOR              @DF00881 18632633
                                  11138+*                                  UNCONDITIONAL REACTIVATION   @DF00881 18633333
0087B0 98DF E49E            08784 11139+         LM    RD,RF,BSEADRS                                    @DA08166 18634033
0087B4 4110 D918            0ABFE 11140+         LA    R1,REACTPUC         SET CORRECT RETURN ADR       @DF00881 18634733
0087B8 47F0 F5AA      09890       11141+         B     REACT7UC                                         @DF00881 18638933
                            087BC 11142+REACTC   EQU   *                   ENTRY PT FOR COND.REACT      @DF00881 18639633
0087BC 98DF E49E            08784 11143+         LM    RD,RF,BSEADRS                                    @DF00881 18640333
0087C0 4110 F660            09946 11144+         LA    R1,RETREACT         SET CORRECT RETURN ADR       @DF00881 18641033
0087C4 47F0 F5B2      09898       11145+         B     REACT7C                                          @DF00881 18641733
                            087C8 11146+REACTEX  EQU   *                   UNCOND.REACT.RTN             @DM03306 18642433
                                  11147+*                                  CALLED FROM EXIT RTN         @DM03306 18643133
0087C8 98DF E49E            08784 11148+         LM    RD,RF,BSEADRS       LOAD BASE FOR PAGE MANAGER   @DM03306 18643833
0087CC 47F0 D918      0ABFE       11149+         B     REACTPUC            UNCOND.REACTIVATION          @DM03306 18644533
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  11151+*                                                                @DA08166 18647333
                                  11152+*  THIS IS THE ENTRY ROUTINE FOR THE ROUTINE TO RESET THE        @DA08166 18648033
                                  11153+*  PHO CAPABILITY OF A TASK                                      @DA08166 18648733
                                  11154+*                                                                @DA08166 18649433
                                  11155+*                                                                @DA08166 18650133


0087D0 4850 0752                  00752 11157+RESPHO   LH    R5,TIK            GET TIK                  @DA08166 18651533
0087D4 8850 0001                  00001 11158+         SRL   R5,1              GET PFA-TABLE ENTRY FOR  @DA08166 18652033
0087D8 5A50 E456                  0873C 11159+         A     R5,APFATAB        THAT TASK                @DA08166 18652533
0087DC D503 5000 E3D6 00000       086BC 11160+         CLC   D0(L4,R5),F0      IF NO PHO INITIALIZED FOR @DA08166 18653033
0087E2 0783                             11161+         BCR   E,R3              THIS TASK, RETURN        @DA08166 18653533
0087E4 58F0 E4A6                  0878C 11162+         L     RF,BSEREG2        LOAD 2ND BASE REGISTER   @DA08166 18655033
0087E8 47F0 ECB0      08F96             11163+         B     RESPHO1           GO TO RESET PHO          @DA08166 18655733
                                  11164+*                                                                         18656734
                                  11165+*  THIS IS A COMMON ENTRY POINT FOR ALL PAGE MANAGER SVC'S.      @D34RDFG 18657034
                                  11166+*  IT LOADS THE PAGE MANAGER BASE REGISTERS BEFORE BRANCHING     @D34RDFG 18657334
                                  11167+*  TO THE ACTUAL SVC ROUTINE (ADDRESS PASSED IN RC).             @D34RDFG 18657634
                                  11168+*                                                                @D34RDFG 18657934
0087EC 58E0 0778                  00778 11169+PMGRSVC  L     RE,APMGR          FIRST BASE REGISTER      @D34RDFG 18658234
                                  082E6 11170+         USING PMGRADR,RE                                  @D34RDFG 18658334
0087F0 98DF E49E                  08784 11171+         LM    RD,RF,BSEADRS     GET OTHER BASE ADDRESSES @D34RDFG 18658534
0087F4 07FC                             11172+         BR    RC                BRANCH TO SVC ROUTINE    @D34RDFG 18658834
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 11174+*                                                                    18660031
                                 11175+*                          S V C  55                                 18690031
                                 11176+*                                                                    18720031
                                 11177+*        FUNCTION :        THIS SVC-ROUTINE TAKES IF POSSIBLE        18750031
                                 11178+*                          THE REQUESTED NUMBER OF PAGE FRAMES       18780031
                                 11179+*                          FROM THE END OF THE MAIN PAGE POOL        18810031
                                 11180+*                          AND ASSIGNS THEM TO PAGES WITH THE        18840031
                                 11181+*                          SAME VIRTUAL ADDRESS                      18870031
                                 11182+*        PARAMETERS :      R0 - NUMBER OF PAGE FRAMES TO BE          18900031
                                 11183+*                               TAKEN FROM MAIN PAGE POOL            18930031
                                 11184+*        RETURN CODES :    R0 - NUMBER OF PAGE FRAMES WHICH          18960031
                                 11185+*                               HAVE BEEN TAKEN FROM MAIN PAGE       18990031
                                 11186+*                               POOL                                 19020031
                                 11187+*                          R1 - ADDRESS OF ALTERNATE AREA            19050031
                                 11188+*                               (R1 IS UNCHANGED IF ALTERNATE        19080031
                                 11189+*                               AREA NOT ASSIGNED)                   19110031
                                 11190+*                                                                    19140031
                                 11191+*        REGISTER USAGE :                                            19170031
                                 11192+*             R2 - R9          -   WORK REGISTERS                    19200031
                                 11193+*             RA               -   PIB POINTER                       19230031


                          087F6 11195+SVGREAL  EQU   *                                                      19290031
0087F6 5880 A004          00004 11196+         L     R8,PIBSAVE        GET SAVEAREA ADDR          @DM01994 19320031
0087FA D505 8000 E5AE     00000 08894 11197+   CLC   D0(L6,R8),SDAID   REQUEST SDAID               @DM02878 19350031
008800 4780 E528          0880E       11198+   BE    SVGREAL1          YES, BRANCH                @DM02878 19380031
008804 D505 8000 E5B4     00000 0889A 11199+   CLC   D0(L6,R8),PDAID   REQUEST PDAID              @DM02878 19410031
00880A 4770 09EA          009EA       11200+   BNE   ERR21             NO ILLEGAL SVC             @DM01994 19440031
                                0880E 11201+SVGREAL1 EQU  *                                         @DM02878 19470031
00880E 9102 073A          0073A       11202+   TM    SYSFLAG3,GETRGTE  IF ALREADY A GETREAL REQUEST IN       19500031
008812 0716                           11203+   BCR   O,R6              PROGRESS, RETURN TO REQUESTOR       19530031
008814 5850 07D4                007D4 11204+   L     R5,ABBOX          POINT TO 1ST ENTRY OF BBOX          19560031
                                00000 11205+   USING BBOXADR,R5                                          19590031
008818 5820 5000                00000 11206+   L     R2,ALTSDAR        GET ADDR OF ALTERNATE AREA          19620031
00881C 5920 07E4                007E4 11207+   C     R2,EOCADDR        IF ALREADY AN ALTERNATE AREA @DM11453 19650031
008820 0776                           11208+   BCR   NE,R6             ASSIGNED , RETURN TO REQUESTOR      19680031
008822 9602 073A          0073A       11209+   OI    SYSFLAG3,GETRGTE  ELSE INDICATE GETREAL FOR SDAID'S   19710031
                                      11210+*                          IN PROGRESS                         19740031
008826 4180 0008                00008 11211+   LA    R8,8                                                  19770031
00882A 4860 5006                00006 11212+   LH    R6,MPGEPOOL       GET NO. OF PAGE FRAMES IN MAIN      20190031
                                      11213+*                          PAGE POOL                           20220031
00882E 1876                           11214+   LR    R7,R6                                                 20550031
008830 1B78                           11215+   SR    R7,R8             GET NO. OF PAGE FRAMES AVAILABLE    20610031
                                      11216+*                          FOR GETREAL                         20640031
008832 1970                           11217+TESTZ  CR    R7,R0             IF NOT ENOUGH PAGE FRAMES  @DF00864 20670031
008834 47B0 E554          0883A       11218+   BNL   TESTN             AVAILABLE                           20700031
008838 1807                           11219+   LR    R0,R7             UPDATE NO. OF REQU. PAGE FRAMES N   20730031
00883A 1812                           11220+TESTN  LR    R1,R2             LOAD R1 TO IDENTIFY REQUEST @DM02850 20760031
                                      11221+*                          NOT DUPLICATE               @DM02850 20790031
00883C 1200                           11222+   LTR   R0,R0             IF N ZERO                           20820031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00883E 4780 E59E      08884        11223+         BZ    SVGREXIT            RETURN TO REQUESTOR                    20850031
008842 1870                        11224+         LR    R7,R0                                                      20970031
008844 8970 000B            0000B  11225+         SLL   R7,11                                                     21000031
008848 1B27                        11226+         SR    R2,R7                GET NEW ADDR OF ALTERNATE AREA        21030031
00884A 4122 0001            00001  11227+         LA    R2,D1(R2)                                                  21090031
00884E 4132 7000            00000  11228+         LA    R3,D0(R2,R7)         GET    FOR GETREAL                     21150031
008852 1873                        11229+         LR    R7,R3                AND SAVE IT                           21180031
008854 1812                        11230+         LR    R1,R2                SAVE NEW ADDR OF ALTERNATE AREA       21210031
008856 D200 E462 067F 08748 0067F  11231+         MVC   FIXWTAB(1),PIK+1     STORE ID OF RQU. TASK        @DM02867 21240031
00885C 4540 E5CC            088B2  11232+         BAL   R4,GETREAL2          EXECUTE GETREAL              @DM02867 21270031
                            08860  11233+GRETADR  EQU   *                                                        21300031
008860 9200 E462      08748        11234+         MVI   FIXWTAB,M0           RESET ID OF RQU. TASK        @DM02867 21330031
008864 1913                        11235+         CR    R1,R3                IF NO ALTERNATE ASSIGNED              21360031
008866 4780 E5A6      0888C        11236+         BE    SVGREXT2             BRANCH                                21390031
00886A 1B73                        11237+         SR    R7,R3                IF NOT PAGE FRAME ON                  21420031
00886C 5070 E49A            08780  11238+         ST    R7,RASDIFF           FAILING STORAGE                       21450031
008870 4780 E594      0887A        11239+         BZ    UPDALTAR             BRANCH                                21480031
008874 8870 000B            0000B  11240+         SRL   R7,11                UPDATE NO OF PAGE FRAMES              21510031
008878 1B07                        11241+         SR    R0,R7                OF ALTERNATE AREA                     21540031
00887A 5010 5000            00000  11242+UPDALTAR ST    R1,ALTSDAR           UPDATE ALTERNATE AREA ADDR IN BBOX    21570031
00887E 1B60                        11243+         SR    R6,R0                UPDATE NO. OF PAGE FRAMES IN          21900031
008880 4060 5006            00006  11244+         STH   R6,MPGEPOOL          MAIN PAGE POOL                        21930031
008884 5880 A004            00004  11245+SVGREXIT L     R8,PIBSAVE                                                 21990031
                            00000  11246+         USING SVEARA,R8                                                  22020031
008888 9001 802C            0002C  11247+         STM   R0,R1,SVER00         INSERT N AND ALTERNATE AREA ADDR      22050031
00888C 94FD 073A      0073A        11248+SVGREXT2 NI    SYSFLAG3,XFF-GETRGTE RESET SVC GETREAL IN PROGRESS         22080031
008890 47F0 E344      0862A        11249+         B     PFEXIT               INDICATOR                             22110031
008894 E2C4C1C9C440                11250+SDAID    DC    CL6'SDAID '          INDICATE SDAID               @DM02878 22140031
00889A D7C4C1C9C440                11251+PDAID    DC    CL6'PDAID '          INDICATE PDAID               @DM02878 22170031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 11253+*                                                                  22230031
                                 11254+*        FUNCTION :              GETREAL TAKES PAGE FRAMES FROM THE 22260031
                                 11255+*                                PAGE POOL AND ASSIGNS THEM TO PAGES 22290031
                                 11256+*                                WITH THE SAME ADDRESS               22320031
                                 11257+*        PARAMETERS :            R2  CONTAINS LL                     22350031
                                 11258+*                                R3  CONTAINS UL                     22380031
                                 11259+*        ( LL = LOWER LIMIT OF THE PHYSICAL AREA TO BE HANDLED       22410031
                                 11260+*                                BY GETREAL  -  ON PAGE BOUNDARY )   22440031
                                 11261+*        ( UL = UPPER LIMIT OF THE PHYSICAL AREA TO BE HANDLED       22470031
                                 11262+*                                BY GETREAL  -  ON PAGE BOUNDARY )   22500031
                                 11263+*                                                                  22530031
                                 11264+*        ENTRY POINTS :                                            22560031
                                 11265+*             GETREAL  ( FROM SVC 58 )                             22590031
                                 11266+*             GETREAL2 ( FROM SVC 55 )                             22620031
                                 11267+*                                                                  22650031
                                 11268+*        REGISTER USAGE :                                          22680031
                                 11269+*             R0,R1,R6,R7      -   USED BY SVC 55 AND SVC 58       22710031
                                 11270+*             R4               -   RETURN REGISTER                 22740031
                                 11271+*             R8,R9,RB,RC      -   WORK REGISTERS                  22770031
                                 11272+*             RA               -   PIB POINTER                     22800031


                          088A0 11274+GETREAL  EQU   *                                    @DM02867 22860031
0088A0 48B0 067E          0067E 11275+INSWID   LH    RB,PIK                                          22920031
0088A4 88B0 0002          00002 11276+         SRL   RB,2                GET FIXWTAB-ENTRY           22950031
0088A8 5AB0 E486          0876C 11277+         A     RB,AFIXWTAB                                     22980031
0088AC D200 B000 0753 00000 00753 11278+         MVC   D0(L1,RB),TIK+1   INSERT ID OF REQU. TASK     23010031
                          088B2 11279+GETREAL2 EQU   *                  ENTRY FROM SVC GETREAL @DM02867 23070031
0088B2 1B88                     11280+         SR    R8,R8               CLEAR REGISTER         @DM02867 23100031
0088B4 4144 0000          00000 11281+         LA    R4,D0(R4)           CLEAR HIGH ORDER BYTE  @DM03548 23130031


                                 11283+* THIS SUBROUTINE TESTS IF ANY REQUESTED PAGE FRAME OF A GETREAL   23190031
                                 11284+* REQUEST IS TEMPORARY FIXED.                                      23220031
0088B8 1892                      11285+TESTPFR LR    R9,R2                                               23250031
0088BA 8890 0008          00008 11286+         SRL   R9,8                GET ADDR OF CPT ENTRY OF FIRST 23280031
0088BE 5A90 07CC          007CC 11287+         A     R9,APFT             PAGE FRAME TO BE TAKEN FROM    23310031
                                 11288+*                                PAGE POOL                      23340031
0088C2 18B2                      11289+         LR    RB,R2               GET ADDR OF FIRST REQU. PAGE FRAME 23370031
0088C4 91E0 9001      00001      11290+TLOOP    TM    D1(R9),X'E0'                               @DM01763 23400031
0088C8 4770 E5EE      088D4      11291+         BNZ   INDPFXD                                    @DM01763 23430031
0088CC 91FF 9000      00000      11292+         TM    0(R9),XFF           IF PAGE FRAME NOT TEMPORARY FIXED 23460031
0088D0 4780 E5F6      088DC      11293+         BZ    SETNFB              BRANCH                         23490031
0088D4 1288                      11294+INDPFXD  LTR   R8,R8               IF REQUEST WAS ALREADY SET TO  23520031
0088D6 077C                      11295+         BCR   NZ,RC               WAIT STATE, RETURN             23550031
0088D8 96F0 E60B      088F1      11296+         OI    GETRSW+1,X'F0'      INDICATE ANY PAGE FRAME FOR    23580031
                                 11297+*                                THIS REQUEST TEMPORARY FIXED   23610031
0088DC 9601 9001      00001      11298+SETNFB   OI    D1(R9),NF           IND. PAGE FRAME NOT TEMP. FIXABLE 23640031
                                 11299+*                                                                  23670031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0088E0 4199 0008            00008 11300+         LA    R9,D8(R9)           POINT TO NEXT PFT-ENTRY                23700031
0088E4 41BB 0800            00800 11301+         LA    RB,D2048(RB)        POINT TO NEXT PAGE FRAME               23730031
0088E8 19B3                       11302+         CR    RB,R3               IF LL STILL LOWER THAN UL              23760031
0088EA 4740 E5DE      088C4       11303+         BL    TLOOP               BRANCH                                 23790031
0088EE 1882                       11304+         LR    R8,R2               SAVE LL INTO REGISTER R8               23820031
0088F0 4700 E6AA      08990       11305+GETRSW   NOP   REISSGRR            SET TO BRANCH IF ANY PAGE FRAME        23850031
                                  11306+*                                  BETWEEN LL AND UL TEMPORARY FIXED      23880031
0088F4 41C0 E612            088F8 11307+LDRADDR  LA    RC,*+4              LOAD RETURN ADDR                       23910031

                                  11309+* CONTROL WILL BE RETURNED TO THIS POINT IF THE REQUEST FOR ONE PAGE    23970031
                                  11310+* HAS BEEN HANDLED BY THE PMGR-TASK                          @DM01297 24000031
0088F8 1923                       11311+         CR    R2,R3               IF LL NOT LOWER THAN UL                24030031
0088FA 47B0 E66C      08952       11312+         BNL   RESHADB             BRANCH                                 24060031
0088FE 18B2                       11313+         LR    RB,R2                                                      24120031
008900 88B0 0008            00008 11314+         SRL   RB,8                                                       24150031
008904 5AB0 07CC            007CC 11315+         A     RB,APFT             GET PFTE-ADDR                          24180031
008908 9104 B001      00001       11316+         TM    D1(RB),DRAPBIT      IF PAGE FRAME NOT FAILING              24210031
00890C 4780 E654      0893A       11317+         BZ    STPADR              BRANCH                                 24240031
008910 1892                       11318+         LR    R9,R2               ELSE                                   24270031
008912 94FE B001      00001       11319+RSLOOP   NI    D1(RB),XFF-NF       RESET NF-BITS OF REMAINING PAGE        24300031
008916 4199 0800            00800 11320+         LA    R9,D2048(R9)        FRAMES                                 24330031
00891A 41BB 0008            00008 11321+         LA    RB,D8(RB)                                                  24360031
00891E 1993                       11322+         CR    R9,R3                                                      24390031
008920 4770 E62C      08912       11323+         BNE   RSLOOP              AND                                    24420031
008924 1832                       11324+         LR    R3,R2               TERMINATE GETREAL                      24450031
008926 1828                       11325+         LR    R2,R8               SAVE START ADDR FOR GETREAL  @DM02867 24480031
008928 41B0 E57A            08860 11326+         LA    RB,GRETADR          IF REQUEST  ISSUED           @DM02867 24510031
00892C 19B4                       11327+         CR    RB,R4               FROM SVC GETREAL             @DM02867 24540031
00892E 4780 E66C      08952       11328+         BE    RESHADB             BRANCH                       @DM02867 24570031
008932 4144 0004            00004 11329+         LA    R4,D4(R4)           SET GETREAL CANCEL EXIT      @DM02867 24600031
008936 47F0 E66C      08952       11330+         B     RESHADB                                          @DM02867 24630031

00893A 5020 0090            00090 11332+STPADR   ST    R2,TRADDR           STORE PAGE FRAME ADDR                  24720031
00893E 9201 0090      00090       11333+         MVI   TRADDR,GREALID      INDICATE GETREAL REQUEST               24750031
008942 4122 0800            00800 11334+         LA    R2,D2048(R2)        POINT TO NEXT PAGE FRAME               24780031
008946 909E 0850            00850 11335+LENQADR  STM   R9,RE,ERA          SAVE R9 TO RE OF CALLER TO ERA         24810031
00894A 4190 E91E            08C04 11336+GENADR   LA    R9,ENQU             LOAD ADDR OF ENQUEUE ROUTINE           24840031
00894E 47F0 E28A      08570       11337+         B     SETUPSA             ATTACH SPECIAL SAVE AREA AND           24870031
                                  11338+*                                  ENQUEUE REQUEST                        24900031

008952 18B8                       11340+RESHADB  LR    RB,R8               GET ADDR OF FIRST PAGE TABLE           24960031
008954 88B0 000A            0000A 11341+         SRL   RB,10               ENTRY                                  24990031
008958 5AB0 E3D2            086B8 11342+         A     RB,APT                                                     25020031
00895C 1983                       11343+RLOOP    CR    R8,R3               IF LL NOT LOWER THAN UL                25050031
00895E 47B0 E68C      08972       11344+         BNL   RFWTAB              BRANCH                                 25080031
008962 947F B000      00000       11345+         NI    D0(RB),X'7F'        RESET 'HIGH-ADDR-BIT' INPT-ENTRY       25110031
008966 41BB 0002            00002 11346+         LA    RB,D2(RB)           POINT TO NEXT PT-ENTRY                 25140031
00896A 4188 0800            00800 11347+         LA    R8,D2048(R8)        POINT TO NEXT PAGE                     25170031
00896E 47F0 E676      0895C       11348+         B     RLOOP                                                      25200031

008972 41B0 E57A            08860 11350+RFWTAB   LA    RB,GRETADR          IF REQUEST ISSUED            @DM02867 25260031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008976 B20D 0000                  11351+         PTLB                        CLEAR ENTRIES IN TLB         @DA08756 25270033
00897A 19B4                       11352+         CR    RB,R4                 FROM SVC GETREAL                       25290031
00897C 078B                       11353+         BCR   E,RB                  RETURN TO REQUESTOR          @DM02867 25320031
00897E 48B0 067E            0067E 11354+RESWID   LH    RB,PIK                                                    25380031
008982 88B0 0002            00002 11355+         SRL   RB,2                  GET FIXWTAB-ENTRY                      25410031
008986 5AB0 E486            0876C 11356+         A     RB,AFIXWTAB                                               25440031
00898A 9200 B000      00000       11357+         MVI   D0(RB),M0             RESET ID OF REQU. TASK                 25470031
00898E 07F4                       11358+         BR    R4                    RETURN TO REQUESTOR          @DM02867 25530031



008990 940F E60B      088F1       11360+REISSGRR NI    GETRSW+1,X'0F'        RESET SWITCH                           25590031
                            08994 11361+BRTRWAIT EQU   *                                                 @D32XDRP 25590632
008994 D501 08C6 E3D6 008C6 086BC 11362+         CLC   LOWFXPTR,F0           PAGES FIXED BY FAST-TRANS    @D32XDRP 25592032
00899A 4780 E6CC      089B2       11363+         BZ    BRTRWT1               NO, BRANCH                   @D32XDRP 25594032
00899E 9089 E6FA            089E0 11364+         STM   R8,R9,RESA3           SAVE REGISTERS               @DM12800 25596032
0089A2 5890 077C            0077C 11365+         L     R9,ACCWT              SET BASE FOR CCW-TR.         @D32XDRP 25598032
0089A6 4589 0F48            00F48 11366+         BAL   R8,DEFIXALL-CCWTADR(R9)  FREE PAGES                @D32XDRP 25600032
0089AA 9889 E6FA            089E0 11367+         LM    R8,R9,RESA3           RESTORE REGISTERS            @DM12800 25602032
0089AE 47F0 E6E4      089CA       11368+         B     BRTRWT2               TRY IT ONCE MORE.            @D32XDRP 25604032
                            089B2 11369+BRTRWT1  EQU   *                                                 @D32XDRP 25606032
0089B2 48C0 067E            0067E 11370+         LH    RC,PIK                SET CORRECT                  @D32XDRP 25606332
0089B6 88C0 0004            00004 11371+         SRL   RC,L4                 BIT IN DEFIXSW               @D32XDRP 25606632
0089BA 43CC E48E            08774 11372+         IC    RC,BITTAB(RC)         TO INDICATE DEFIXING         @D32XDRP 25606932
0089BE 44C0 E6F0            089D6 11373+         EX    RC,SETDEFIX           FOR FAST-TRANS               @D32XDRP 25607232
0089C2 9287 A000      00000       11374+         MVI   PIBFLG,BOUND          SET TASK TO WAIT STATE       @D32XDRP 25608032
0089C6 45C0 E282            08568 11375+         BAL   RC,RWAIT              ATTACH SYSTEM SAVE AREA      @D32XDRP 25616032

                                  11377+* CONTROL IS TRANSFERRED TO THIS POINT WHEN THE TASK IS POSTED           25710031
                            089CA 11378+BRTRWT2  EQU   *                                                 @D32XDRP 25720032
0089CA 4180 0004            00004 11379+         LA    R8,4                                                      25740031
0089CE 45C0 E5D2            088B8 11380+         BAL   RC,TESTPFR            TEST IF ANY REQUESTED PAGE FRAME       25770031
                                  11381+*                                   TEMPORARY FIXED                      25800031
0089D2 47F0 E6AE      08994       11382+         B     BRTRWAIT                                                  25830031
0089D6 9600 08C4      008C4       11383+SETDEFIX OI    DEFIXSW,ZERO          SET BIT IN DEFIX SW ON       @D32XDRP 25840032
0089DA 9700 08C4      008C4       11384+OFFDEFIX XI    DEFIXSW,ZERO          SET BIT IN DEFIX SW OFF      @D32XDRP 25850032
0089DE 0000
0089E0 0000000000000000           11385+RESA3    DC    2F'0'                 SAVEAREA                     @DM12800 25851032



0089E8 5840 A008            00008 11387+RESGETR  L     R4,PIBSAV2            POINT TO SYSTEM SAVE AREA    @DY20464 25920034
                                  11388+         DROP  R8                    FORGET ABOUT STAND.ADDR.     @DM04279 25950031
                            00000 11389+         USING SVEARA,R4             USE SYSTEM SAVE AREA         @DY20464 25980034
0089EC 5820 4034            00034 11390+         L     R2,SVER02             LOAD CURRENT LL              @DM04279 26010031
0089F0 4130 0800            00800 11391+         LA    R3,D2048                                                  26040031
0089F4 1B23                       11392+         SR    R2,R3                 DECREASE LL BY 2K                      26070031
0089F6 5020 4034            00034 11393+         ST    R2,SVER02             UPDATE LL IN SYSTEM SAVE AREA          26100031
0089FA 07F8                       11394+         BR    R8                    RETURN TO LOAD LEVELER                 26130031
                            00000 11395+         USING SVEARA,R8             RESTORE STAND.ADDRESSING     @DM04279 26160031
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
                                 11396+         DROP  R4                                          @DY20464 26190034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 11398+*                                                                    26280031
                                 11399+*                                 S V C 54                           26310031
                                 11400+*                                                                    26340031
                                 11401+*        FUNCTION :               FREEREAL RETURNS PAGE FRAMES INTO  26370031
                                 11402+*                                 THE PAGE POOL                      26400031
                                 11403+*        PARAMETERS :    IF REQUEST ISSUED TO FREE ALTERNATE AREA :  26430031
                                 11404+*                                 R2  CONTAINS ZERO                  26460031
                                 11405+*                        ELSE :                                      26490031
                                 11406+*                                 R2  CONTAINS LL                    26520031
                                 11407+*                                 R3  CONTAINS UL                    26550031
                                 11408+*        ( LL = LOWER LIMIT OF THE PHYSICAL AREA TO BE HANDLED       26580031
                                 11409+*                          BY FREEREAL  -  ON PAGE BOUNDARY )        26610031
                                 11410+*        ( UL = UPPER LIMIT OF THE PHYSICAL AREA TO BE HANDLED       26640031
                                 11411+*                          BY FREEREAL  -  ON PAGE BOUNDARY )        26670031
                                 11412+*                                                                    26700031
                                 11413+*        REGISTER USAGE :                                            26730031
                                 11414+*              R6                -   RETURN REGISTER (EXIT)           26760031
                                 11415+*              R4,R5,R7,R9       -   WORK REGISTERS                   26790031
                                 11416+*              RA                -   PIB POINTER                      26820031


                          089FC 11418+SVFREAL  EQU   *                                                      26880031
0089FC 5880 A004          00004 11419+         L     R8,PIBSAVE                                             26910031
008A00 9500 073D     0073D      11420+         CLI   SELECT,ZERO        IF NOT SYSTEM TASK          @DM03548 26970031
008A04 4780 E732     08A18      11421+         BE    FREERUT            BRANCH                      @DM03548 27000031
008A08 5880 0794          00794 11422+         L     R8,ASYSBLKX                                    @DM03548 27030031
                          00000 11423+         USING SYSBLKS,R8                                     @DM03548 27060031
008A0C 5880 8004          00004 11424+         L     R8,SYSAVAR         LOAD SYSTEM TASK SAVE AREA  @DM03548 27090031
                          00000 11425+         USING SVEARA,R8          ADDRESS                     @DM03548 27120031
008A10 9823 8034          00034 11426+         LM    R2,R3,SVER02       LOAD PARAMETER REG'S FROM SA @DM03548 27150031
008A14 47F0 E77E     08A64      11427+         B     LBREG                                          @DM03548 27180031
                          08A18 11428+FREERUT  EQU   *                                              @DM03548 27210031
008A18 9823 8034          00034 11429+         LM    R2,R3,SVER02       LOAD PARAMETER REG'S FROM SA        27270031
008A1C 1222                     11430+         LTR   R2,R2              IF FREEREAL REQUEST NOT FOR         27300031
008A1E 4770 E772     08A58      11431+         BNZ   FREEREAL           SDAID'S, BRANCH                     27330031
008A22 9102 073A     0073A      11432+         TM    SYSFLAG3,GETRGTE   IF A GETREAL REQUEST IN            27360031
008A26 0716                     11433+         BCR   O,R6               PROGRESS, RETURN TO REQUESTOR       27420031
008A28 5850 07D4          007D4 11434+         L     R5,ABBOX           POINT TO 1ST ENTRY OF BBOX          27570031
008A2C 5820 5000          00000 11435+         L     R2,ALTSDAR         LOAD LL                             27600031
008A30 5830 07E4          007E4 11436+         L     R3,EOCADDR                                     @DM11453 27630031
008A34 1923                     11437+         CR    R2,R3              IF NO ALTERNATE AERA PRESENT        27660031
008A36 0786                     11438+         BCR   E,R6               RETURN TO REQUESTOR                 27690031
008A38 5030 5000          00000 11439+         ST    R3,ALTSDAR         UPDATE ALTERNATE AREA ADDR          27720031
008A3C 4133 0001          00001 11440+         LA    R3,D1(R3)          GET UL                              27750031
008A40 5B30 E49A          08780 11441+         S     R3,RASDIFF                                             27780031
008A44 1873                     11442+         LR    R7,R3                                                  27840031
008A46 1B72                     11443+         SR    R7,R2              GET NO. OF PAGE FRAMES              27870031
008A48 8870 000B          0000B 11444+         SRL   R7,11              TO BE FREED                         27900031
008A4C 4A70 5006          00006 11445+         AH    R7,MPGEPOOL        UPDATE NO. OF PAGE FRAMES IN        27930031
008A50 4070 5006          00006 11446+         STH   R7,MPGEPOOL        MAIN PAGE POOL                      27960031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008A54 47F0 E77E      08A64       11447+         B     LBREG                                                    27990031
                                  11448+*                                                                      28320031
                            08A58 11449+FREEREAL EQU   *                                                      28350031
008A58 4890 07C6            007C6 11450+         LH    R9,APNO                                                  28410031
008A5C 4199 0001            00001 11451+         LA    R9,D1(R9)          INCREASE NO. OF ACTIVE VIRTUAL        28440031
008A60 4090 07C6            007C6 11452+         STH   R9,APNO            PARTITIONS                            28470031
008A64 98DF E49E            08784 11453+LBREG    LM    RD,RF,BSEADRS      LOAD  BASE REGISTERS         @DM02836 28530031
008A68 1923                       11454+FRPFLOOP CR    R2,R3              IF LL NOT LOWER THAN UL               28560031
008A6A 47B0 E794      08A7A       11455+         BNL   PWTASKS            BRANCH                                28590031
008A6E 4590 D1A8            0A48E 11456+         BAL   R9,DFREER          FREE PAGE FRAME                       28620031
008A72 4122 0800            00800 11457+         LA    R2,D2048(R2)       POINT TO NEXT PAGE FRAME              28650031
008A76 47F0 E782      08A68       11458+         B     FRPFLOOP                                                 28680031

008A7A 9283 095D      0095D       11460+PWTASKS  MVI   TRTFIX,READY       POST PSE TASK                         28740031
008A7E 9283 0953      00953       11461+         MVI   TRTPFG,READY       POST TASKS WAITING FOR FREED PAGE     28800031
008A82 07F6                       11462+         BR    R6                 RETURN                                28914034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 11464+*                                                                    28950031
                                 11465+*        FUNCTION :              THIS ROUTINE ATTACHES A PAGE FRAME  28980031
                                 11466+*                                TO A SPECIFIED PAGE AND FIXES THAT  29010031
                                 11467+*                                PAGE FRAME TEMPORARY                29040031
                                 11468+*        PARAMETERS :            R2 - VIRTUAL ADDR WHICH LIES WITHIN 29070031
                                 11469+*                                     THE PAGE TO BE TEMPORARILY     29100031
                                 11470+*                                     FIXED.                         29130031
                                 11471+*                                                                    29160031
                                 11472+*        THIS ROUTINE IS CALLED BY :                                 29190031
                                 11473+*             1. CCW-TRANSLATION                                     29220031
                                 11474+*             2. FETCH                                               29250031
                                 11475+*             3. SVC 44                                              29280031
                                 11476+*             4. SDAID'S                                             29310031
                                 11477+*                                                                    29340031
                                 11478+* CTFIX IS AN ALTERNATE ENTRY POINT TO TFIX, WHICH ALLOWS      @DL29ZCJ 29370031
                                 11479+* SYSTEMS TASKS TO CONDITIONALLY TFIX A PAGE.  FIXING WILL     @DL29ZCJ 29400031
                                 11480+* OCCUR ONLY IF THE REQUEST CAN BE SERVICED IMMEDIATELY,       @DL29ZCJ 29430031
                                 11481+* AND A PAGE FRAME IS CURRENTLY AVAILABLE FOR WHICH NO        @DL29ZCJ 29460031
                                 11482+* PAGEOUT IS REQUIRED.  A SUCCESSFUL CTFIX RETURNS 0(RC),     @DL29ZCJ 29490031
                                 11483+* AN UNSUCCESSFUL ONE RETURNS 0(R5).                          @DL29ZCJ 29520031

008A84 00000000                  11485+CTFIXADR DC    F'0'               CTFIX SWITCH & NO FIX RETURN @DL29ZCJ 29580031

008A88 5050 E79E           08A84 11487+CTFIX    ST    R5,CTFIXADR        SET CTFIX SW = NO FIX RETURN @DL29ZCJ 29640031
008A8C 909F E396           0867C 11488+TFIX     STM   R9,RF,PFSA         SAVE REGISTERS USED BY TFIX          29670031
008A90 B1B2 0000           00000 11489+         LRA   RB,0(R2)           LRA OF ADDR OF PAGE TO BE FIXED      29700031
008A94 4770 E7EE      08AD4      11490+         BNZ   BLDREQU            BRANCH IF PAGE NOT IN CORE           29730031
008A98 98DF E49E           08784 11491+         LM    RD,RF,BSEADRS      LOAD BASE REGISTERS                  29760031
008A9C 88B0 000B           0000B 11492+         SRL   RB,11                                                   29790031
008AA0 89B0 0003           00003 11493+         SLL   RB,3               GET ADDR OF                          29820031
008AA4 5AB0 07CC           007CC 11494+         A     RB,APFT            PFT-ENTRY                            29850031
008AA8 4590 FA1E           09D04 11495+         BAL   R9,DTFIX           GO TO EXECUTE TFIX                   29880031
008AAC 47F0 E7E2      08AC8      11496+         B     TFIXEXIT           PAGE TFIXED                @DL29ZCJ 29910031
008AB0 58F0 E3AE           08694 11497+         L     RF,PFSA+D24        TFIX NOT IMMEDIATELY POSSIBLE        29940031
                                 11498+*                                 (NO PAGE FRAME AVAILABLE OR NFF=1)   29970031
008AB4 BF9F E79E           08A84 11499+CTFIXCHK ICM   R9,M15,CTFIXADR    CTFIX REQUEST?             @DL29ZCJ 30000031
008AB8 4780 E7F6      08ADC      11500+         BZ    BLDREQU1           NO, BRANCH                 @DL29ZCJ 30030031
008ABC 9507 073D      0073D      11501+         CLI   SELECT,SUPVR       CTFIX MUST COME FROM FETCH @DM06561 30060031
008AC0 4770 E7F6      08ADC      11502+         BNE   BLDREQU1           IF NOT,BRANCH              @DM06561 30090031
008AC4 5090 E3A2           08688 11503+         ST    R9,PFSA+D12        SET NO FIX EXIT (RC)       @DL29ZCJ 30120031
008AC8 D703 E79E E79E 08A84 08A84 11504+TFIXEXIT XC    CTFIXADR,CTFIXADR  CLEAR CTFIX SWITCH         @DL29ZCJ 30150031
008ACE 989F E396           0867C 11505+         LM    R9,RF,PFSA         RESTORE REGISTERS          @DL29ZCJ 30180031
008AD2 07FC                      11506+         BR    RC                 RETURN                     @DL29ZCJ 30210031


008AD4 91F0 E9E1      08CC7      11508+BLDREQU  TM    PMRGTE,X'F0'       CHECK IF PSE BUSY          @DL29ZCF 30270031
008AD8 4710 E7CE      08AB4      11509+         BO    CTFIXCHK           YES, CHECK FOR CTFIX       @DL29ZCJ 30300031
008ADC D217 0850 E396 00850 0867C 11510+BLDREQU1 MVC   ERA(L24),PFSA     R9 TO RE OF CALLER TO ERA  @DL29ZCJ 30330031
008AE2 5020 0090           00090 11511+         ST    R2,TRADDR          STOR PAGE ADDR FOR ENQU-ROUTINE      30360031
008AE6 9202 0090      00090      11512+         MVI   TRADDR,TFIXID      AND INDICATE TFIX-REQUEST            30390031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008AEA 9500 073D      0073D       11513+         CLI   SELECT,M0          IF REQUESTOR NOT A SYSTEM TASK        30420031
008AEE 4780 E664      0894A       11514+         BZ    GENADR             BRANCH                      @DM04299  30450031
008AF2 BEC7 0025            00025 11515+         STCM  RC,M7,SVOLDP+5     STORE RETURN ADDR TO REQUESTOR        30480031
008AF6 AD00 0020      00020       11516+         STOSM SVOLDP,M0          STORE CURRENT SYSTEM MASK INTO PSW    30510031
008AFA 920C 0021      00021       11517+         MVI   SVOLDP+D1,ECBIT+MCBIT SET ON MC,CC-BIT. SET OFF PP-BIT   30540031
008AFE 9220 0BFD      00BFD       11518+         MVI   HLDPSW,SVCOPSW     POINT TO SVC OLD PSW                  30570031
008B02 4590 0BAA            00BAA 11519+         BAL   R9,GENENT          GO TO EXECUTE GENERAL ENTRY           30600031
008B06 47F0 E91E      08C04       11520+         B     ENQU               ENQUEUE REQUEST                       30630031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 11522+*                                                                    30690031
                                 11523+*        FUNCTION :               THIS ROUTINE FREES A FORMERLY      30720031
                                 11524+*                                 TEMPORARILY FIXED PAGE FRAME       30750031
                                 11525+*                                 BY REDUCING THE TFIX-COUNTER.      30780031
                                 11526+*                                 IF THE PAGE FRAME IS THEN NOT TFIXED  30810031
                                 11527+*                                 OR PFIXED ANYMORE THE TASKS WAITING   30840031
                                 11528+*                                 FOR THE EVENT THAT THE PAGE FRAME     30870031
                                 11529+*                                 OR THE PAGE IS FREED ARE POSTED.      30900031
                                 11530+*                                                                    30930031
                                 11531+*        PARAMETERS :             R3 -  NUMBER OF THE PAGE FRAME        30960031
                                 11532+*                                       WHICH HAS TO BE FREED        30990031
                                 11533+*                                                                    31020031
                                 11534+*        THIS ROUTINE IS CALLED BY :                                 31050031
                                 11535+*              1. CCW-TRANSLATION                                    31080031
                                 11536+*              2. FETCH                                              31110031
                                 11537+*              3. SVC 44                                             31140031
                                 11538+*              4. SDAID'S                                            31170031
                                 11539+*                                                                    31200031

008B0A 9096 E396          0867C 11541+TFREE    STM    R9,R6,PFSA          SAVE REGISTERS USED BY TFREE @DA06287 31380032
008B0E 98DF E49E          08784 11542+         LM     RD,RF,BSEADRS       LOAD BASE REGISTERS                   31440031
008B12 4590 D0B2          0A398 11543+         BAL    R9,DTFREE           FREE PAGE FRAME                       31470031
008B16 47F0 E900    08BE6       11544+         B      LDWRKRG             DTFREE RETURNS TO THIS INSTRUCTION    31500031
                                 11545+*                                 IF PAGE STILL TEMP. FIXED    @DM01763 31530031
                                 11546+*                                 OR IF PAGE FRAME STILL       @DM01763 31560031
                                 11547+*                                 PERMANENTLY FIXED            @DM01763 31590031
008B1A 9283 095D      0095D       11548+         MVI    TRTFIX,READY        POST PMGR TASK                        31620031
008B1E 9283 0953      00953       11549+         MVI    TRTPFG,READY        POST TASKS WAITING FOR FREED PAGE     31680031
008B22 18C3                       11550+         LR     RC,R3                                     @DM03007 31950031
008B24 1ACC                       11551+         AR     RC,RC               GET ADDR OF PT-ENTRY OF   @DM03007 31980031
008B26 5AC0 E3D2          086B8   11552+         A      RC,APT              PAGE FRAME                @DM03007 32010031
008B2A 9101 B001      00001       11553+         TM     1(RB),NF            IF FREED PAGE FRAME NOT INDICATED     32040031
008B2E 4780 E8A6      08B8C       11554+         BZ     TESTNFF             TO BE TEMPORARY NOT FIXABLE, BRANCH   32070031
008B32 D300 E45E C001 08744 00001 11555+         MVZ    STKSVE(L1),D1(RC)   GET STKEY                             32130031
008B38 1B99                       11556+         SR     R9,R9                                                     32190031
008B3A 4390 E45E          08744   11557+         IC     R9,STKSVE           GET CORR. FIXWTAB ENTRY               32220031
008B3E 8890 0002          00002   11558+         SRL    R9,2                                                      32250031
008B42 18A9                       11559+         LR     RA,R9               SET BIT IN DEFIXSW        @D32XDRP    32255032
008B44 88A0 0002          00002   11560+         SRL    RA,L2               OFF WHICH CORRESP.        @D32XDRP    32260032
008B48 43AA E48E          08774   11561+         IC     RA,BITTAB(RA)       TO PARTITION OF           @D32XDRP    32265032
008B4C 44A0 E6F0          089D6   11562+         EX     RA,SETDEFIX         THIS TASK                 @D32XDRP    32270032
008B50 44A0 E6F4          089DA   11563+         EX     RA,OFFDEFIX                                   @D32XDRP    32275032
008B54 5A90 E486          0876C   11564+         A      R9,AFIXWTAB                                               32280031
008B58 1BAA                       11565+         SR     RA,RA               CLEAR REGISTER                        32310031
008B5A 43A9 0000          00000   11566+         IC     RA,0(R9)            GET TIK OF WAITING TASK               32340031
008B5E 4AA0 06AA          006AA   11567+         AH     RA,YPIBTAB          GET ADDR OF CORR. PIB                 32370031
008B62 94FB A000      00000       11568+         NI     PIBFLG,RCOMPL       POST WAITING TASK                     32400031
008B66 9500 E45E      08744       11569+         CLI    STKSVE,ZERO         SVC 55 WAITING FOR THIS FRAME@DM04308 32430031
008B6A 4780 E8A6      08B8C       11570+         BE     TESTNFF             YES                       @DM04308    32460031
008B6E 9180 A004      00004       11571+         TM     PIBDATFL,TRAM       IF WAITING TASK RUNS NOT IN VIRTUAL   32490031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008B72 4780 E8A6      08B8C       11572+         BZ    TESTNFF             MODE, BRANCH                            32520031
008B76 BEB7 9001            00001 11573+         STCM  RB,M7,D1(R9)        SAVE ADDR.OF RESERV.P.F.ENTRY@DM03277   32550031
                                  11574+*                                 IN CORR.FIXWTAB ENTRY FOR PFIX          32580031
008B7A 1B55                       11575+         SR    R5,R5                                                     32610031
008B7C 4350 E45E            08744 11576+         IC    R5,STKSVE           GET DISPL. INTO BBOX                    32640031
008B80 4590 F51C            09802 11577+         BAL   R9,GPFTBNDS         GET PFTE-ADDRESSES OF REAL              32670031
                                  11578+*                                 PARTITION BOUNDARIES                    32700031
008B84 4590 E906            08BEC 11579+         BAL   R9,RESNFBTS         RESET NF-BITS OF ALL PFTE'S OF THE      32730031
                                  11580+*                                 REAL PARTITION EXCEPT FOR THE           32760031
                                  11581+*                                 RESERVED PAGE FRAME                     32790031
008B88 9858 ED4E            09034 11582+         LM    R5,R8,SAVFPF+D8     RELOAD REGISTERS              @DM03423  32820031
008B8C 9108 B001      00001       11583+TESTNFF  TM    D1(RB),NFF          IF PAGE WAS INDICATED NOT TEMP.         33180031
008B90 4780 E900      08BE6       11584+         BZ    LDWRKRG             FIXABLE, BRANCH                         33210031
008B94 D100 E45D C000 08743 00000 11585+         MVN   WID+D1(L1),D0(RC)                                       33240031
008B9A 4860 E45C            08742 11586+         LH    R6,WID              LOAD WID                  @DA06287      33270032
008B9E 8960 0002            00002 11587+         SLL   R6,2                AND                       @DA06287      33300032
008BA2 5A60 E486            0876C 11588+         A     R6,AFIXWTAB         GET CORR. FIXWTAB ENTRY   @DA06287      33330032
008BA6 482B 0004            00004 11589+         LH    R2,D4(RB)                                                 33360031
008BAA 8920 000B            0000B 11590+         SLL   R2,11               GET ADDR OF PAGE FROM PFTE              33390031
008BAE BF37 6001            00001 11591+         ICM   R3,M7,D1(R6)        PFTE-ADDR OF RESERVED PAGE    @DA06287  33420032
                                  11592+*                                 FRAME FROM FIXWTAB-ENTRY                33450031
008BB2 4590 FB42            09E28 11593+         BAL   R9,EXCHANGE         EXCHANGE PAGES AND PFIX PAGE            33480031
                                  11594+*                                 IN RESERVED PAGE FRAME                  33510031
008BB6 47F0 E8FC      08BE2       11595+         B     LDR2R3              EXCHANGE AND PFIX DELAYED               33540031
008BBA 1BAA                       11596+         SR    RA,RA               CLEAR REGISTER            @DA06287      33570032
008BBC 43A6 0000            00000 11597+         IC    RA,0(R6)            GET TIK FROM FIXWTAB      @D32XDRP      33580032
008BC0 1B22                       11598+         SR    R2,R2                                         @DM12800      33591032
008BC2 4AA0 06CC            006CC 11599+         AH    RA,YPIB2TAB         GET PIK OF                @DM12800      33592032
008BC6 4320 A00D            0000D 11600+         IC    R2,PIBPIK+D1        TASK                      @DM12800      33593032
008BCA 8820 0004            00004 11601+         SRL   R2,L4               SET BIT IN DEFIXSW        @DM12800      33594032
008BCE 4322 E48E            08774 11602+         IC    R2,BITTAB(R2)       OFF WHICH CORRESPONDS     @DM12800      33595032
008BD2 4420 E6F0            089D6 11603+         EX    R2,SETDEFIX                                   @DM12800      33596032
008BD6 4420 E6F4            089DA 11604+         EX    R2,OFFDEFIX         TO PARTITION OF THIS TASK @DM12800      33597032
008BDA 41AA 0100            00100 11605+         LA    RA,PIBTAB-PIB2TAB(RA)  POINT TO PIB           @DM12800      33598032
008BDE 94FB A000      00000       11606+         NI    PIBFLG,RCOMPL       AND POST THAT TASK                      33690031
008BE2 9826 E3BA            086A0 11607+LDR2R3   LM    R2,R6,PFSA+D36      RELOAD REGISTERS          @DA06287      33720032
008BE6 989F E396            0867C 11608+LDWRKRG  LM    R9,RF,PFSA          LOAD REGISTERS USED BY TFREE OR TFIX    33780031
008BEA 07FC                       11609+         BR    RC                  RETURN TO REQUESTOR                     33810031



                                  11611+* THIS SUBROUTINE RESETS THE NF-BITS IN ALL PFTE'S OF THE REAL          33900031
                                  11612+* PARTITION EXCEPT IN THE PFTE OF THE RESERVED PAGE FRAME              33930031
008BEC 1857                       11613+RESNFBTS LR    R5,R7               GET 1ST PFTE-ADDR OF PARTITION          33960031
008BEE 19B5                       11614+TSTRPFR  CR    RB,R5               IF PFTE OF RESERVED PAGE FRAME          33990031
008BF0 4780 E912      08BF8       11615+         BE    NXTPFTE             BRANCH                                  34020031
008BF4 94FE 5001      00001       11616+         NI    D1(R5),XFF-NF       RESET NF-BIT IN PFTE                    34050031
008BF8 4155 0008            00008 11617+NXTPFTE  LA    R5,D8(R5)           POINT TO NEXT PFTE                      34080031
008BFC 1958                       11618+         CR    R5,R8               IF LAST PFTE OF PARTITON                34110031
008BFE 0789                       11619+         BCR   E,R9                RETURN                                  34140031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
008C00 47F0 E908      08BEE       11620+         B     TSTRPFR                                                 34170031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 11622+*                                                                    34260031
                                 11623+*        FUNCTION :              THIS ROUTINE ENQUEUES A PAGE-I/O-   34290031
                                 11624+*                                REQUEST AND SETS THE REQUESTING     34320031
                                 11625+*                                TASK NON-DISPATCHABLE               34350031
                                 11626+*                                IF THE GATE OF THE PMGR TASK IS     34380031
                                 11627+*                                OPEN THE GATE IS CLOSED AND CONTROL 34410031
                                 11628+*                                IS TRANSFERRED TO THE PMGR-TASK.    34440031
                                 11629+*                                ELSE CONTROL IS RETURNED TO THE     34470031
                                 11630+*                                DISPATCHER.                         34500031
                                 11631+*                                                                    34530031
                                 11632+*        PARAMETER :             TRADDR - FIELD IN LOW CORE WHICH    34560031
                                 11633+*                                         CONTAINS PAGE-I/O-REQUEST  34590031
                                 11634+*                                                                    34620031
                                 11635+*        THIS ROUTINE IS CALLED BY :                                 34650031
                                 11636+*             1. PFFLIH                                              34680031
                                 11637+*             2. GETREAL ( USING SETUPSA ROUTINE )                   34710031
                                 11638+*             3. TFIX    ( USING SETUPSA ROUTINE )                   34740031
                                 11639+*             4. PFIX    ( USING SETUPSA ROUTINE )                   34770031
                                 11640+*                                                                    34800031

                          08C04 11642+PFDISP   EQU   *                                                      34860031
                          08C04 11643+ENQU     EQU   *                                                      34890031
008C04 5860 086C            0086C 11644+          L     R6,DISPAD           SET R6 FOR VTAM          @DM05356 34920033
008C08 9200 09AA      009AA       11645+          MVI   ACCTRAID,JAOHID     CHANGE ACCOUNTING ID TO OVERHEAD   34980031
008C0C 5880 E48A            08770 11646+          L     R8,AEOPGQU          LOAD ADDR OF FIRST FREE ENTRY      35040031
                                  11647+*                                   IN PGQU                            35070031
008C10 D300 0090 0753 00090 00753 11648+          MVZ   TRADDR(L1),TIK+D1   SAVE USER TASK ID                  35100031
008C16 9500 073D      0073D       11649+          CLI   SELECT,M0           IF SYSTEM TASK                     35130031
008C1A 4770 E95C      08C42       11650+          BNZ   SYSTSK              BRANCH                             35160031
008C1E D200 0093 0753 00093 00753 11651+          MVC   TRADDR+3(L1),TIK+D1  INSERT INDICATOR OF REQU. TASK    35190031
008C24 1BDD                       11652+          SR    RD,RD                                                35250031
008C26 4890 0752            00752 11653+          LH    R9,TIK                                               35280031
008C2A 8890 0001            00001 11654+          SRL   R9,1                GET PFA-TABLE ENTRY OF             35310031
008C2E 5A90 E456            0873C 11655+          A     R9,APFATAB          ACTIVE TASK                        35340031
008C32 59D9 0000            00000 11656+          C     RD,D0(R9)           IF PHO INITIALIZED FOR THAT        35370031
008C36 4770 EA06      08CEC       11657+          BNE   ENQUPHO             TASK , BRANCH                      35400031
008C3A 9604 A000      00000       11658+          OI    PIBFLG,XFF-RCOMPL   SET TASK NON-DISPATCHABLE          35460031
008C3E 47F0 E9CE      08CB4       11659+          B     UPDEOPQ                                              35580031
008C42 D200 0093 073D 00093 0073D 11660+SYSTSK    MVC   TRADDR+3(L1),SELECT INSERT INDICATOR FOR SYSTEM TASK 35610031
008C48 9200 073D      0073D       11661+          MVI   SELECT,ZERO         SET SYSTEM TASK NON-DISPATCHABLE   35640031
008C4C 9507 0093      00093       11662+          CLI   TRADDR+D3,SUPVR     IF REQUEST NOT FROM FETCH          35670031
008C50 4770 E9CE      08CB4       11663+          BNE   UPDEOPQ             BRANCH                             35700031
008C54 D503 002C 0788 0002C 00788 11664+          CLC   PCKADR(L4),AMCOM    WAS IT REALLY FETCH      @DA02628  35760031
008C5A 47B0 E9CE      08CB4       11665+          BNL   UPDEOPQ             NO,HANDLE NORMALLY       @DA02628  35790031
008C5E 58F0 E4A6            0878C 11666+          L     RF,BSEREG2          LOAD 2ND BASE REGISTER   @DM02799  35880031
008C62 4890 067E            0067E 11667+          LH    R9,PIK              GET PIK OF PARTITION               35910031
008C66 8890 0003            00003 11668+          SRL   R9,3                GET PIK/8                          35940031
008C6A 4199 0057            00057 11669+          LA    R9,LLBNDBG-D2(R9)   GET BND CONDITION FOR THIS TASK    35970031
008C6E 4159 08E6            008E6 11670+          LA    R5,RETAB(R9)        GET ADDR.OF TRT-BYTE               36000031
008C72 9583 5000      00000       11671+          CLI   D0(R5),READY        HAS PARTITION ALREADY BEEN         36030031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  11672+*                                 REACTIVATED ?                          36060031
008C76 4780 E9A4      08C8A       11673+         BE    TTRTFIX            YES, BRANCH                            36090031
008C7A 4290 A000            00000 11674+         STC   R9,PIBFLG          SET TASK LLBND                @DM01263 36120031
008C7E 4140 0090            00090 11675+         LA    R4,TRADDR          SET POINTER FOR RESFCH        @DM05580 36150031
008C82 4580 ED78            0905E 11676+         BAL   R8,RESFCH          FREE TFIXED PAGES OF THE               36180031
                                  11677+*                                 FETCH-REQUEST                          36210031
008C86 47F0 E344      0862A       11678+         B     PFEXIT                                                   36240031
008C8A 9500 095D      0095D       11679+TTRTFIX  CLI   TRTFIX,X'00'       IF PMGR-TASK ALREADY POSTED            36300031
008C8E 4770 E9CE      08CB4       11680+         BNE   UPDEOPQ            BRANCH                                 36330031
008C92 4140 0090            00090 11681+         LA    R4,TRADDR          SET POINTER FOR RESFCH        @DM05580 36360031
008C96 4580 ED78            0905E 11682+         BAL   R8,RESFCH          FREE TFIXED PAGES OF THE               36390031
                                  11683+*                                 FETCH-REQUEST                          36420031
008C9A D501 08F0 E3D6 008F0 086BC 11684+         CLC   CNTCOM(L2),F0      IF NO. OF COMPLETE GENERAL TFIX-       36480031
008CA0 4770 E9C6      08CAC       11685+         BNE   SETFBND            REQUESTS NOT ZERO , BRANCH             36510031
008CA4 926D A000      00000       11686+         MVI   PIBFLG,PFGBND      SET TASK WAITING FOR NEXT FREED        36540031
008CA8 47F0 E344      0862A       11687+         B     PFEXIT             PAGE FRAME                             36570031
                            08CAC 11688+SETFBND  EQU   *                                                         36600031
008CAC 9277 A000      00000       11689+         MVI   PIBFLG,FIXBND      SET TASK FIX-BOUND                     36660031
008CB0 47F0 E344      0862A       11690+         B     PFEXIT                                                   36690031

008CB4 D203 8000 0090 00000 00090 11692+UPDEOPQ  MVC   0(L4,R8),TRADDR    INSERT REQUEST INTO QUEUE              36750031
008CBA AF05 0010      00010       11693+         MC    16,5               PAGENQ EVENT SDAID                     36780031
008CBE 4188 0004            00004 11694+         LA    R8,D4(R8)          UPDATE ADDR OF FIRST FREE ENTRY        36810031
008CC2 5080 E48A            08770 11695+         ST    R8,AEOPGQU         IN THE QUEUE                           36840031
                            08CC7 11696+PMRGTE   EQU   *+1                                           @DM02683 36870031
008CC6 4700 E344      0862A       11697+         NOP   PFEXIT             BRANCH, IF PMGR TASK BUSY     @DM02683 36900031
008CCA 96F0 E9E1      08CC7       11698+CLOSEG   OI    PMRGTE,X'F0'       CLOSE GATE OF PMGR TASK       @DM02683 36930031
008CCE 9204 073D      0073D       11699+         MVI   SELECT,PMGR        ACTIVATE PMGR-TASK            @DM02687 36960031
008CD2 5870 0790            00790 11700+         L     R7,ASYSBLK0                                              36990031
008CD6 4177 0020            00020 11701+         LA    R7,PMRBLOCK-SYSBLK0(R7)                                  37020031
008CDA 5070 0794            00794 11702+         ST    R7,ASYSBLKX                                              37050031
                            00000 11703+         USING SYSBLKS,R7                                               37080031
008CDE D200 7002 0753 00002 00753 11704+         MVC   SYSPIK(L1),TIK+D1                                        37110031
                                  11705+         DROP  R7                                           @DA01384 37140031
008CE4 98DF E49E            08784 11706+         LM    RD,RF,BSEADRS      LOAD BASE REGISTERS                    37170031
008CE8 47F0 F662      09948       11707+         B     PMR                BRANCH TO PAGE-MNGMNT-RTN.             37200031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           08CEC 11709+ENQUPHO  EQU   *                                                          37290031
008CEC 9103 A004      00004       11710+         TM    PIBDATFL,CSVRET+CINITSVC IF PAGE FAULT IN SV-             37530031
008CF0 4770 EA4A      08D30       11711+         BNZ   SVSPF               SERVICE ROUTINE , BRANCH             37560031
008CF4 D500 0753 06BF 00753 006BF 11712+         CLC   TIK+D1(L1),LTKEY+D1  IF  PAGE FAULT IN LTA      @DM11453 37590031
008CFA 4780 EA4A      08D30       11713+         BE    SVSPF               BRANCH                               37620031
008CFE 58D0 0090            00090 11714+         L     RD,TRADDR           LOAD PAGE FAULT REQUEST              37650031
008D02 908A E396            0867C 11715+PFAEXIT1 STM   R8,RA,PFSA          SAVE REGISTERS USED BY ENQU          37680031
008D06 5889 0000            00000 11716+         L     R8,D0(R9)           GET ADDR OF PAGE FAULT APPENDAGE     37710031
008D0A 4188 0000            00000 11717+         LA    R8,D0(R8)           ROUTINE                              37740031
008D0E 9218 087F      0087F       11718+         MVI   RID+D1,PFARID       SET RID FOR PHO APPENDAGE            37770031
                                  11719+*                                  ROUTINE                              37800031
008D12 0578                       11720+         BALR  R7,R8               TRANSFER COTROL TO ENTRY A OF        37830031
                                  11721+*                                  THE PAGE FAULT APPENDAGE ROUTINE     37860031
008D14 9200 087F      0087F       11722+         MVI   RID+D1,M0           RESET RID                            37890031
008D18 58E0 0778            00778 11723+         L     RE,APMGR            RESTORE BASE REGISTER                37920031
008D1C 988A E396            0867C 11724+         LM    R8,RA,PFSA                                               37950031
008D20 9180 9000      00000       11725+         TM    D0(R9),PHOFLG       IF ALREADY A PAGE FAULT REQUEST      37980031
008D24 4710 E344      0862A       11726+         BO    PFEXIT              OF THE TASK IN PGQU, BRANCH          38010031
008D28 9680 9000      00000       11727+         OI    D0(R9),PHOFLG       INDICATE AT LEAST ONE REQUEST        38040031
                                  11728+*                                  IN THE QUEUE OF THE SYSTEM           38070031
008D2C 47F0 E9CE      08CB4       11729+         B     UPDEOPQ                                                  38100031


                           08D30 11731+SVSPF    EQU   *                                                          38160031
008D30 9604 A000      00000       11732+         OI    PIBFLG,XFF-RCOMPL   SET TASK NON-DISPATCHABLE            38190031
008D34 9180 9000      00000       11733+         TM    D0(R9),PHOFLG       IF NO REQUEST OF THE TASK IN         38220031
008D38 4780 EA60      08D46       11734+         BZ    INDSVP              THE QUEUE OF THE SYSTEM, BRANCH      38250031
008D3C D203 9004 0090 00004 00090 11735+         MVC   D4(L4,R9),TRADDR    MOVE REQUEST INTO PFA-TABLE          38280031
008D42 47F0 E344      0862A       11736+         B     PFEXIT              GO TO DISPATCHER                     38310031
008D46 9640 9000      00000       11737+INDSVP   OI    D0(R9),SVSFLG       INDICATE PAGE FAULT FROM SV-         38340031
                                  11738+*                                  SERVICE ROUTINE IN THE QUEUE OF      38370031
008D4A 47F0 E9CE      08CB4       11739+         B     UPDEOPQ             THE SYSTEM                           38400031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  11741+*                                                                  38490031
                                  11742+*                                                                  38520031
                                  11743+*        FUNCTION :               THIS ROUTINE DELETES THE FIRST   38550031
                                  11744+*                                 PAGE-I/O-REQUEST WHICH HAS BEEN  38580031
                                  11745+*                                 HANDLED FROM THE QUEUE AND SETS THE 38610031
                                  11746+*                                 REQUESTING TASK DISPATCHABLE     38640031
                                  11747+*                                 IF THE QUEUE IS EMPTY THE GATE OF 38670031
                                  11748+*                                 THE PMGR TASK IS OPENED AND CONTROL 38700031
                                  11749+*                                 IS TRANSFERRED TO THE DISPATCHER. 38730031
                                  11750+*                                 ELSE THE NEXT ENTRY IN THE QUEUE IS 38760031
                                  11751+*                                 HANDLED.                         38790031
                                  11752+*                                                                  38820031

008D4E 4180 E352          08638 11754+DEQUY    LA    R8,PGQU            LOAD ADDR OF QUEUE                   38880031
008D52 47F0 EABA    08DA0       11755+         B     DELETE             DON'T POST TASK                      38910031
                          08D56 11756+DEQU     EQU   *                                                      38940031
008D56 D703 E79E E79E 08A84 08A84 11757+         XC    CTFIXADR,CTFIXADR  CLEAR CTFIX SWITCH          @DL29ZCJ 38970031
                          08D5C 11758+DEQUZ    EQU   *                                              @DL29ZCJ 39000031
008D5C 9101 E45F    08745       11759+         TM    TIKSVE,EXCHIND     IF NO EXCHANGE REQUEST WAS DELAYED   39060031
008D60 4780 EAAA    08D90       11760+         BZ    LAPGQU             BRANCH                               39090031
008D64 94FE E45F    08745       11761+         NI    TIKSVE,XFF-EXCHIND RESET EXCHANGE INDICATOR     @DF00893 39120031
008D68 1BAA                     11762+         SR    RA,RA                                           @D32XDRP 39150032
008D6A 188A                     11763+         LR    R8,RA                                           @DM12800 39160032
008D6C 43A0 E45F          08745 11764+         IC    RA,TIKSVE          GET TIK                      @D32XDRP 39180032
008D70 4AA0 06CC          006CC 11765+         AH    RA,YPIB2TAB        GET PIK                      @D32XDRP 39187032
008D74 4380 A00D          0000D 11766+         IC    R8,PIBPIK+D1       FROM PIBEXT.                 @D32XDRP 39194032
008D78 8880 0004          00004 11767+         SRL   R8,L4              SET BIT IN DEFIXSW           @D32XDRP 39201032
008D7C 4388 E48E          08774 11768+         IC    R8,BITTAB(R8)      OFF WHICH CORRESPONDS        @DM12800 39208032
008D80 4480 E6F0          089D6 11769+         EX    R8,SETDEFIX                                     @D32XDRP 39215032
008D84 4480 E6F4          089DA 11770+         EX    R8,OFFDEFIX        TO PARTITION OF THIS TASK    @D32XDRP 39222032
008D88 41AA 0100          00100 11771+         LA    RA,PIBTAB-PIB2TAB(RA)  POINT TO PIB             @D32XDRP 39229032
008D8C 94FB A000    00000       11772+         NI    PIBFLG,RCOMPL      POST TASK WAITING FOR        @D32XDRP 39240032
                                  11773+*                                 DELAYED EXCHANGE             @D32XDRP 39250032
008D90 4180 E352          08638 11774+LAPGQU   LA    R8,PGQU            LOAD ADDR OF QUEUE                   39300031
008D94 9108 8000    00000       11775+         TM    D0(R8),PHOID       IF DUMMY-REQUEST INDICATOR ON        39360031
008D98 4710 EABA    08DA0       11776+         BO    DELETE             BRANCH                               39390031
008D9C 4560 EB34          08E1A 11777+         BAL   R6,POSTENT         POST REQUESTING TASK                 39450031
                          08DA0 11778+DELETE   EQU   *                                                      39480031
008DA0 AF05 0011    00011       11779+         MC    17,5               PAGEHDL EVENT SDAID                  39510031
008DA4 4560 EB8A          08E70 11780+         BAL   R6,DELENTR         DELETE ENTRY FROM QUEUE              39540031
008DA8 1978                     11781+         CR    R7,R8              IF NOT ANOTHER TASK IN PGQU          39570031
008DAA 4780 EB0A    08DF0       11782+         BE    OPENGTE            BRANCH                               39720031
008DAE 940F EB07    08DED       11783+         NI    EMPTYSW+1,X'0F'                                         39750031
008DB2 910F 8000    00000       11784+TESTNE   TM    0(R8),X'0F'        IF TFIX,PFIX OR GETREAL REQUEST      39780031
008DB6 4770 EAF8    08DDE       11785+         BNZ   GNENTRY            BRANCH                               39810031
008DBA BF96 8001          00001 11786+         ICM   R9,M6,D1(R8)       GET LOGICAL ADDR OF NEXT REQUEST     39840031
008DBE B159 0000          00000 11787+         LRA   R5,0(R9)           GET CORR. REAL ADDR                  39870031
008DC2 4770 EAF8    08DDE       11788+         BNZ   GNENTRY            IF CC NOT ZERO, BRANCH               39900031
008DC6 5950 07E4          007E4 11789+         C     R5,EOCADDR         IF RETURNED ADDR GT          @DM11453 39930031
008DCA 4720 EAF8    08DDE       11790+         BH    GNENTRY            HIGHEST CORE ADDR, BRANCH            39960031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008DCE 4560 EB34            08E1A 11791+         BAL   R6,POSTENT          POST REQUESTING TASK                    39990031
008DD2 AF05 0011      00011       11792+         MC    17,5                PAGEHDL EVENT SDAID                     40020031
008DD6 4560 EB8A            08E70 11793+         BAL   R6,DELENTR          DELETE ENTRY FROM QUEUE                 40050031
008DDA 47F0 EB00      08DE6       11794+         B     TFEOQU              ENTRY FROM QUEUE                        40080031
008DDE 4188 0004            00004 11795+GNENTRY  LA    R8,D4(R8)           POINT TO NEXT ENTRY                     40110031
008DE2 96F0 EB07      08DED       11796+         OI    EMPTYSW+1,X'F0'     INDICATE QUEUE NOT EMPTY                40140031
008DE6 1978                       11797+TFEOQU   CR    R7,R8               IF ANOTHER REQUEST IN THE QUEUE         40170031
008DE8 4770 EACC      08DB2       11798+         BNE   TESTNE              BRANCH                                  40200031
008DEC 4700 EB16      08DFC       11799+EMPTYSW  NOP   PMRINIT            IF QUEUE NOT EMPTY, BRANCH              40230031
008DF0 940F E9E1      08CC7       11800+OPENGTE  NI    PMRGTE,X'0F'        OPEN GATE OF PMGR TASK       @DM02683   40290031
008DF4 9200 073D      0073D       11801+         MVI   SELECT,M0          SET PMGR TASK NON-DISPATCH.  @DM02687   40320031
008DF8 47F0 E344      0862A       11802+         B     PFEXIT              RETURN TO DISPATCHER                    40350031

                            08DFC 11804+PMRINIT  EQU   *                                                @DM02163   40410031
008DFC 58D0 E49E            08784 11805+         L     RD,BSEADRS          LOAD 3RD BASE REGISTER       @DM02163   40470031
008E00 43A0 E352            08638 11806+         IC    RA,PGQU             GET USER TASK ID             @DM02163   40530031
008E04 54A0 F9FE            09CE4 11807+         N     RA,MASK1                                                    40560031
008E08 42A0 0753            00753 11808+         STC   RA,TIK+D1           STORE  TASK ID                          40590031
008E0C 4AA0 06CC            006CC 11809+         AH    RA,YPIB2TAB         POINT TO PIB EXTENTIOM                  40650031
008E10 D200 067F A00D 0067F 0000D 11810+         MVC   PIK+D1(L1),PIBPIK+D1 STORE PARTITION ID                  40680031
008E16 47F0 F662      09948       11811+         B     PMR                                                       40740031

                                  11813+*        POST REQUESTING TASK                                        40800031
                                  11814+*                                                                    40830031
008E1A 1BAA                       11815+POSTENT  SR    RA,RA                                                   40860031
008E1C 43A8 0003            00003 11816+         IC    RA,D3(R8)           GET TIK                             40890031
008E20 910F 8003      00003       11817+         TM    D3(R8),X'0F'        IF SYSTEM TASK                      40920031
008E24 4770 EB62      08E48       11818+         BNZ   SYSTMTSK            BRANCH                              40950031
008E28 4AA0 06AA            006AA 11819+         AH    RA,YPIBTAB          GET ADDR OF PIB          @DM02842   40980031
008E2C 1B77                       11820+         SR    R7,R7                                                   41040031
008E2E 1897                       11821+         LR    R9,R7                                                   41070031
008E30 4398 0003            00003 11822+         IC    R9,D3(R8)                                               41100031
008E34 8890 0001            00001 11823+         SRL   R9,1                                                    41130031
008E38 5A90 E456            0873C 11824+         A     R9,APFATAB          GET ADDR OF PFA-TABLE ENTRY             41160031
008E3C 5979 0000            00000 11825+         C     R7,D0(R9)           IF PHO INITIALIZED FOR THAT             41190031
008E40 4770 EBAC      08E92       11826+         BNE   DEQUPHO             TASK, BRANCH                            41220031
008E44 47F0 EB84      08E6A       11827+         B     POSTTSK                                                 41280031
008E48 43AA 0798            00798 11828+SYSTMTSK IC    RA,SYSPTR(RA)       GET POINTER TO SYS.TSK.BLOCK @DL29ZCJ   41310031
008E4C 5AA0 0790            00790 11829+         A     RA,ASYSBLK0         ADDRESS OF SYSTEM TASK BLOCK @DL29ZCJ   41340031
                            00000 11830+         USING SYSBLKS,RA                                   @DL29ZCJ   41370031
008E50 BF9F E79E            08A84 11831+         ICM   R9,M15,CTFIXADR     UNSUCCESSFUL CTFIX?      @DL29ZCJ   41400031
008E54 4780 EB80      08E66       11832+         BZ    SYSTMT1             NO, BRANCH               @DL29ZCJ   41430031
008E58 5870 A004            00004 11833+         L     R7,SYSAVAR          POINT TO SAVE AREA       @DL29ZCJ   41460031
008E5C BE97 700D            0000D 11834+         STCM  R9,M7,SVEPSW2-SVEARA+1(R7)    SET NO FIX RETURN @DL29ZCJ   41490031
008E60 D703 E79E E79E 08A84 08A84 11835+         XC    CTFIXADR,CTFIXADR   CLEAR CTFIX SWITCH       @DL29ZCJ   41520031
                            08E66 11836+SYSTMT1  EQU   *                                            @DL29ZCJ   41550031
008E66 48A0 A000            00000 11837+         LH    RA,SYSPIBFL         GET ADDR OF SYSTEM TASKS PIBFLAG      41580031
                            00000 11838+         USING PIBADR,RA                                               41610031
                            08E6A 11839+POSTTSK  EQU   *                                                       41640031
008E6A 94FB A000      00000       11840+         NI    PIBFLG,RCOMPL       SET TASK DISPATCHABLE                   41670031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008E6E 07F6                      11841+         BR    R6                                                      41790031
008E70 5870 E48A            08770 11842+DELENTR  L     R7,AEOPGQU          LOAD END ADDR OF PGQU               41820031
008E74 1978                      11843+         CR    R7,R8               IF END OF PGQU REACHED      @DA01224 41850031
008E76 0786                      11844+         BCR   E,R6                RETURN, NO ENTRY FOUND      @DA01224 41880031
008E78 1B78                      11845+         SR    R7,R8                                                   41910031
008E7A 4470 EBA6            08E8C 11846+         EX    R7,MVERST           DELETE REQUEST FROM PGQU            41940031
008E7E 5870 E48A            08770 11847+         L     R7,AEOPGQU          LOAD END ADDR OF PGQU               41970031
008E82 4B70 E496            0877C 11848+         SH    R7,H4                                                   42000031
008E86 5070 E48A            08770 11849+         ST    R7,AEOPGQU          UPDATE END ADDR OF PGQU             42030031
008E8A 07F6                      11850+         BR    R6                  RETURN                              42060031
                                 11851+*                                                                      42090031
008E8C D200 8000 8004 00000 00004 11852+MVERST   MVC   0(1,R8),D4(R8)      SHIFT REST OF PGQU ONE ENTRY        42120031
                                 11853+*                                                                      42150031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008E92 9140 9000      00000       11855+DEQUPHO  TM    D0(R9),SVSFLG      IF PAGE FAULT CAUSED BY SV-           42240031
008E96 4710 EBC4      08EAA       11856+         BO    TSTPFA             SERVICE ROUTINE, BRANCH               42270031
008E9A 5979 0004            00004 11857+         C     R7,D4(R9)          IF PAGE FAULT FROM SV-SERVICE         42300031
008E9E 4770 EC92      08F78       11858+         BNE   EXCHR              ROUTINE STORED IN PFATAB, BRANCH      42330031
008EA2 58D8 0000            00000 11859+         L     RD,D0(R8)          LOAD QUEUE ENTRY                      42360031
008EA6 47F0 EBE4      08ECA       11860+         B     PFAEXIT2                                                 42390031

008EAA 94BF 9000      00000       11862+TSTPFA   NI    D0(R9),XFF-SVSFLG  RESET SV-SERVICE RTN.-INDICATOR       42450031
008EAE 5979 0004            00004 11863+         C     R7,D4(R9)          IF PFA-TABLE ENTRY EMPTY              42480031
008EB2 4780 EB84      08E6A       11864+         BE    POSTTSK            BRANCH                                42510031
008EB6 94FB A000      00000       11865+         NI    PIBFLG,RCOMPL      SET TASK DISPATCHABLE                 42540031
008EBA AF05 0011      00011       11866+         MC    17,5               PAGEHDL EVENT SDAID          @DM01809 42570031
008EBE 58D9 0004            00004 11867+         L     RD,D4(R9)          LOAD ENTRY FROM PFATAB                42600031
008EC2 50D8 0000            00000 11868+         ST    RD,D0(R8)          STORE HANDLED PF             @DM01809 42630031
008EC6 5079 0004            00004 11869+         ST    R7,D4(R9)          RESET PFATAB ENTRY                    42660031
008ECA 906A E396            0867C 11870+PFAEXIT2 STM   R6,RA,PFSA         SAVE REGISTERS USED BY DEQU           42690031
008ECE 5889 0000            00000 11871+         L     R8,D0(R9)          GET ADDR OF PAGE FAULT APPENDAGE      42720031
008ED2 4188 0000            00000 11872+         LA    R8,D0(R8)          ROUTINE                               42750031
008ED6 9218 087F      0087F       11873+         MVI   RID+D1,PFARID      SET RID FOR PHO APPENDAGE             42780031
                                  11874+*                                 ROUTINE                               42810031
008EDA 4578 0004            00004 11875+         BAL   R7,D4(R8)          TRANSFER CONTROL TO ENTRY B OF        42840031
                                  11876+*                                 THE PAGE FAULT APPENDAGE ROUTINE      42870031
008EDE 9200 087F      0087F       11877+         MVI   RID+D1,M0          RESET RID                             42900031
008EE2 58E0 0778            00778 11878+         L     RE,APMGR           RESTORE BASE REGISTER                 42930031
008EE6 18FE                       11879+         LR    RF,RE                                                    42960031
008EE8 5AF0 0844            00844 11880+         A     RF,HEX1000                                               42990031
008EEC 986A E396            0867C 11881+         LM    R6,RA,PFSA         RELOAD REGISTERS USED BY DEQU         43020031
008EF0 12DD                       11882+         LTR   RD,RD              IF ANOTHER PAGE FAULT TO BE           43050031
008EF2 4770 EC16      08EFC       11883+         BNE   INSNR              PROCESSED FOR THAT TASK, BRANCH       43080031
008EF6 947F 9000      00000       11884+         NI    D0(R9),XFF-PHOFLG  INDICATE NO REQUEST IN SYSTEM         43110031
                                  11885+*                                 QUEUE FOR THAT TASK                   43140031
008EFA 07F6                       11886+         BR    R6                                                       43170031

008EFC                            11888+INSNR    DS    0H                                           @D30EULR 43230031
008EFC 4850 0752            00752 11889+         LH    R5,TIK             GET KEY OF TASK           @DA10135 43270034
008F00 4A50 06CC            006CC 11890+         AH    R5,YPIB2TAB        POINT TO PIB EXTENTION    @DA10135 43280034
                            00000 11891+         USING PIBADR,R5          DECLARE ADDRESSABILITY    @DA10135 43290034
                                  11892+         DROP  RA                 STOP STANDARD USING       @DA10135 43300034
008F04 4850 5000            00000 11893+         LH    R5,PIBCOMRA        GET PARTITION COMREG ADDRESS @DA10135 43310034
                            00000 11894+         USING PIBADR,RA          SET STANDARD USING        @DA10135 43315034
                            00000 11895+         USING COMREG,R5          DECLARE ADDRESSABILITY    @DM11453 43320031
008F08 9120 50A4      000A4       11896+         TM    POWFLG1,X'20'      IS THIS POWER PARTITION   @D30EULR 43350031
                            00000 11897+         USING BBOXADR,R5         RESET USING               @D30EULR 43380031
008F0C 4710 EC5C      08F42       11898+         BO    SKVLPWR            IF YES, ALLOW REQUEST     @D30EULR 43410031
008F10 5850 07D4            007D4 11899+         L     R5,ABBOX           POINT TO BBOX             @DM02687 43470031
008F14 5870 500C            0000C 11900+         L     R7,FINVIRT         END ADDR OF VIRT STORAGE  @DY11984 43484034
008F18 4BA0 0BDE            00BDE 11901+         SH    RA,PIBDIFF                                   @DM02687 43500031
008F1C 4A50 A00C            0000C 11902+         AH    R5,PIBPIK          POINT BBOX ENTRY OF PART  @DM02687 43530031
008F20 54D0 F9FA            09CE0 11903+         N     RD,MASK            GET RETURNED VIRT ADDR    @DM02687 43560031
008F24 59D0 5008            00008 11904+         C     RD,VIRTORP                                   @DM02687 43590031
008F28 4740 EC70      08F56       11905+         BL    INVPAR                                       @DM02687 43620031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008F2C 59D0 500C            0000C 11906+         C     RD,VIRTENDP         IF RETURNED ADDR             @DM02687 43630034
008F30 4740 EC5C      08F42       11907+         BL    NSVAPHO             IN VIRT PART.,  BRANCH       @DY11984 43652034
008F34 BDD7 07ED            007ED 11908+         CLM   RD,M7,ASVA+D1       COULD IT BE IN THE SVA       @DY11984 43654034
008F38 4740 EC70      08F56       11909+         BL    INVPAR              NO, THEN INVALID ADDR        @DY11984 43655034
008F3C 197D                       11910+         CR    R7,RD               REALLY WITHIN SVA            @DY11984 43662034
008F3E 47D0 EC70      08F56       11911+         BNH   INVPAR              NO, ABOVE SVA..... INVALID   @DY11984 43664034
                            08F42 11912+NSVAPHO  EQU   *                                                @DY11984 43666034

008F42                            11914+SKVLPWR  DS    0H                                               @D30EULR 43770031
008F42 AF05 0011      00011       11915+         MC    17,5                PAGEHDL EVENT SDAID          @DM02687 43830031
008F46 BED6 8001            00001 11916+         STCM  RD,M6,D1(R8)        STORE NEXT PAGE FAULT REQUEST@DM02842 43860031
008F4A 94F0 8000      00000       11917+         NI    D0(R8),X'F0'        INTO FIRST SYSTEM QUEUE ENTRY        43890031
008F4E AF05 0010      00010       11918+         MC    16,5                PAGENQ EVENT SDAID           @DM01809 43920031
008F52 47F0 EB16      08DFC       11919+         B     PMRINIT                                          @DF00896 43950031

008F56 4560 EB8A            08E70 11921+INVPAR   BAL   R6,DELENTR          DELETE ENTRY FROM QUEUE      @DM02687 44010031
008F5A 1978                       11922+         CR    R7,R8               IF QUEUE NOT EMPTY           @DM02687 44040031
008F5C 4770 EC82      08F68       11923+         BNE   ERRINVP             BRANCH                       @DM02687 44070031
008F60 940F E9E1      08CC7       11924+         NI    PMRGTE,X'0F'        OPEN GATE OF PMGR TASK       @DM02683 44100031
008F64 9200 073D      0073D       11925+         MVI   SELECT,M0           SET PMGR TASK NON DISPATCH.  @DM02687 44130031
008F68 58B0 0844            00844 11926+ERRINVP  L     RB,HEX1000          LOW CORE BASE                @D34RDFG 44160034
008F6C 4AA0 0BDE            00BDE 11927+         AH    RA,PIBDIFF          POINT TO PIB                 @DM02842 44190031
008F70 5860 086C            0086C 11928+         L     R6,DISPAD           CANCEL TASK DUE TO ILLEGAL   @DM05356 44220033
008F74 47F0 0A00      00A00       11929+         B     ERR2C               PAR. PASSED BY PHO RTN.      @DM02687 44250031

008F78 D703 8000 9004 00000 00004 11931+EXCHR    XC    D0(L4,R8),D4(R9)    EXCHANGE ENTRIES IN PFATAB AND       44310031
008F7E D703 9004 8000 00004 00000 11932+         XC    D4(L4,R9),D0(R8)    SYSTEM QUEUE                         44340031
008F84 D703 8000 9004 00000 00004 11933+         XC    D0(L4,R8),D4(R9)                                         44370031
008F8A AF05 0010      00010       11934+         MC    16,5                PAGENQ EVENT SDAID           @DM01809 44400031
008F8E 9640 9000      00000       11935+         OI    D0(R9),SVSFLG       INDICATE PAGE FAULT FROM SV-         44430031
008F92 47F0 EB16      08DFC       11936+         B     PMRINIT             SERVICE RTN. IN SYSTEM QUEUE @DF00896 44460031

                                  11938+*                                                                    44520031
                                  11939+* THIS ROUTINE RESETS THE PHO-CAPABILITY OF A TASK                   44550031
                                  11940+*                                                                    44580031
                            08F96 11941+RESPHO1  EQU   *                                                @DA08166 44760033
008F96 D207 5000 E3D6 00000 086BC 11942+         MVC   D0(L8,R5),F0        RESET PFA-TABLE ENTRY                44790031
008F9C 4180 E352            08638 11943+         LA    R8,PGQU             LOAD ADDR OF PAGE-I/O-REQU.-QUEUE    44820031
008FA0 1868                       11944+         LR    R6,R8                                                44850031
008FA2 4850 0752            00752 11945+         LH    R5,TIK              GET TIK                              44880031
008FA6 5980 E48A            08770 11946+NEXTE    C     R8,AEOPGQU          IF END OF PAGE-I/O-REQUEST-          44910031
008FAA 47B0 ED26      0900C       11947+         BNL   RRPHO               QUEUE REACHED, RETURN                44940031
008FAE 4348 0000            00000 11948+         IC    R4,D0(R8)           GET TIK OF USER TASK FROM            44970031
008FB2 5440 F9FE            09CE4 11949+         N     R4,MASK1            QUEUE-ENTRY                          45000031
008FB6 1945                       11950+         CR    R4,R5               IF PHO TO BE RESET FOR THAT TASK     45030031
008FB8 4780 ECDE      08FC4       11951+         BE    DELPHOEN            BRANCH                               45060031
008FBC 4188 0004            00004 11952+         LA    R8,D4(R8)           POINT TO NEXT QUEUE ENTRY            45090031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

008FC0 47F0 ECC0      08FA6       11953+         B     NEXTE                                                    45120031

008FC4 1968                       11955+DELPHOEN CR    R6,R8              IF FIRST ENTRY IN QUEUE               45180031
008FC6 4780 ECEC      08FD2       11956+         BE    SPHOID             BRANCH                                45210031
008FCA 4560 EB8A            08E70 11957+         BAL   R6,DELENTR         ELSE DELETE ENTRY                     45240031
008FCE 47F0 ED26      0900C       11958+         B     RRPHO              RETURN                                45270031
008FD2 9500 073D      0073D       11959+SPHOID   CLI   SELECT,M0          IS PMGR ACTIVE?              @DM03264 45300031
008FD6 4770 ECFC      08FE2       11960+         BNE   PHODEL             YES,DEQUEUE                  @DM03264 45330031
008FDA 9608 8000      00000       11961+         OI    D0(R8),PHOID       INDICATE DUMMY REQUEST TO    @DM03264 45360031
                                  11962+*                                 DEQUEUE-ROUTINE                       45390031
008FDE 47F0 ED26      0900C       11963+         B     RRPHO              RETURN                       @DM03264 45420031
008FE2 4560 EB8A            08E70 11964+PHODEL   BAL   R6,DELENTR         DELETE FIRST ENTRY           @DM03264 45450031
008FE6 1978                       11965+         CR    R7,R8              IS QUEUE NOW EMPTY ?         @DM03264 45480031
008FE8 4770 ED12      08FF8       11966+         BNE   PHOSAV             NO, SAVE STATUS TO PROCESS NEXT PQ   *45510031
                                                                          ENTRY                        @DM03264 45540031
008FEC 9200 073D      0073D       11967+         MVI   SELECT,M0          Q EMPTY, INACTIVATE PMGR     @DM03264 45570031
008FF0 9400 E9E1      08CC7       11968+         NI    PMRGTE,X00         OPEN PMGR GATE               @DM04375 45600031
008FF4 47F0 ED26      0900C       11969+         B     RRPHO              RETURN                       @DM03264 45630031
008FF8 5870 0790            00790 11970+PHOSAV   L     R7,ASYSBLK0                                     @DM03264 45660031
008FFC 4177 0020            00020 11971+         LA    R7,PMRBLOCK-SYSBLK0(R7)                         @DM03264 45690031
                            00000 11972+         USING SYSBLKS,R7                                      @DM03264 45720031
009000 5880 7004            00004 11973+         L     R8,SYSAVAR         GET PMGR SAVE AREA           @DM03264 45750031
                                  11974+         DROP  R7                                              @DA01384 45780031
009004 4160 EB16            08DFC 11975+         LA    R6,PMRINIT         STORE RESUME PSW INTO        @DM03264 45810031
009008 5060 800C            0000C 11976+         ST    R6,SVEPSW2         PMGR SAVE AREA               @DM03264 45840031
00900C 5860 086C            0086C 11977+RRPHO    L     R6,DISPAD                                       @DM05356 45870033
009010 48A0 06AA            006AA 11978+         LH    RA,YPIBTAB         POINT TO PIB                          45900031
009014 1AA5                       11979+         AR    RA,R5                                                    45930031
009016 07F3                       11980+         BR    R3                 RETURN                                45960031
                                  11981+         DROP  R5                 FORGET POINTER TO BBOX       @DM02687 46020031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   11983+*                                                                    49290031

                                   11985+*   ADDRESSES OF QUEUE-HEADERS                                       49350031
                                   11986+*   THE SEQUENCE  Q00 - Q10 - HQ - Q01 - Q11  MUST NOT BE CHANGED ]  49380031
009018 00018FD8                    11987+Q00      DC    A(Q1)                                                 49410031
00901C 00018FE0                    11988+Q10      DC    A(Q2)                                                 49440031
009020 00018FE8                    11989+HQ       DC    A(Q3)                                                 49470031
009024 00018FF0                    11990+Q01      DC    A(Q4)                                                 49500031
009028 00018FF8                    11991+Q11      DC    A(Q5)                                                 49530031
00902C                             11992+SAVFPF   DS    12F                                                   49590031
00905C                             11993+SCAN     DS    C                                                     49620031
                                   11994+*                                                                    49650031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  11996+*************************************************************KR 49710031
                                  11997+*        THIS ROUTINE FREES THE RESOURCE FETCH-RTN. IN CASE NO MORE     49740031
                                  11998+*        PAGE FRAMES WERE AVAILABLE OR THE REQUESTING TASK HAS BEEN     49770031
                                  11999+*        DEACTIVATED.                                                   49800031
                                  12000+*************************************************************KR 49830031

00905E                            12002+RESFCH   DS    0H                                        @DM02799 49890031
00905E 9283 0955      00955       12003+         MVI   TRTIDRA,READY      OPEN GATE                        50160031
009062 9601 A004      00004       12004+         OI    PIBDATFL,CSVRET    USE SYSTEM SA FOR RESTART @DM01378 50220031
009066 189C                       12005+         LR    R9,RC              SAVE COUNTER                     50280031
009068 5820 A008            00008 12006+         L     R2,PIBSAV2         GET ADDR.OF SYSTEM SA            50340031
                                  12007+         DROP  R8                                                  50370031
                            00000 12008+         USING SVEARA,R2                                           50400031
00906C 1B33                       12009+         SR    R3,R3              GET ADDRESS                      50430031
00906E 4330 079F            0079F 12010+         IC    R3,SUPPTR          OF FETCH TASK                    50460031
009072 5A30 0790            00790 12011+         A     R3,ASYSBLK0        CONTROL BLOCK                    50490031
009076 5833 0004            00004 12012+         L     R3,D4(R3)          GET ADDR. OF FETCH SA            50520031
00907A D203 2008 3008 00008 00008 12013+         MVC   SVEPSW,D8(R3)      SAVE LEFT HALF OF PSW     @DL29ZCJ 50550031
009080 D203 200C EDDE 0000C 090C4 12014+         MVC   SVEPSW2,ASETFCH    SET TO RESTORE FETCH STATUS @DL29ZCJ 50580031
009086 9200 2070      00070       12015+         MVI   RLDSW,ZERO         FORCE REREAD OF RLD BUFFER  @DL29ZCJ 50640031
00908A 9102 4000      00000       12016+         TM    D0(R4),TFIXID      TFIX REQUEST?               @DM05580 50700031
00908E 4710 EDBA      090A0       12017+         BO    RESTFIX            YES, BRANCH                 @DM05580 50730031
009092 D203 2050 300C 00050 0000C 12018+         MVC   RESETPT,D12(R3)    SAVE FETCH INTERRUPT ADDR   @DL29ZCJ 50760031
009098 D23F 2010 3010 00010 00010 12019+         MVC   SVER09(SVJOBD-SVER09),D16(R3)  SAVE FCH REGS   @DL29ZCJ 50790031
00909E 07F8                       12020+         BR    R8                 RETURN                      @DL29ZCJ 50820031
0090A0 D203 2050 EDE2 00050 090C8 12021+RESTFIX  MVC   RESETPT,ACCWGEN    RESTART FETCH AT CCWGEN     @DL29ZCJ 50850031
0090A6 5830 0980            00980 12022+         L     R3,ASTRING         GET ADDR OF FIRST CCW       @DL29ZCJ 50880031
0090AA 9104 3004      00004       12023+         TM    D4(R3),IDAL        ONE TFIX ALREADY COMPLETE?  @DL29ZCJ 50910031
0090AE 0788                       12024+         BZR   R8                 NO, RETURN                  @DL29ZCJ 50940031
0090B0 5833 0000            00000 12025+         L     R3,D0(R3)          POINT TO IDAW               @DL29ZCJ 50970031
0090B4 5833 0000            00000 12026+         L     R3,D0(R3)          GET STORAGE ADDRESS         @DL29ZCJ 51000031
0090B8 8830 000B            0000B 12027+         SRL   R3,L11             GET PAGE FRAME NUMBER       @DL29ZCJ 51030031
0090BC 45C0 E824            08B0A 12028+         BAL   RC,TFREE           FREE PAGE OF DATA AREA      @DL29ZCJ 51060031
0090C0 18C9                       12029+         LR    RC,R9              RELOAD COUNTER                       51120031
0090C2 07F8                       12030+         BR    R8                                                      51180031
                                  12031+         DROP  R2                                                  51210031
                            00000 12032+         USING SVEARA,R8          RESTORE ORIGINAL USING           51240031
0090C4 00006B3A                   12033+ASETFCH  DC    A(SETFCH)                                           51270031
0090C8 0000684A                   12034+ACCWGEN  DC    A(CCWGEN)                                 @DL29ZCJ  51300031
                                  12035+*                                                                   51330031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   12037+*                                                                  51390031
                                   12038+*                                                                  51420031
                                   12039+* THIS SVC-ROUTINE IS CALLED BY JOB CONTROL AND SETS               51450031
                                   12040+* THE PARTITION IN A DEFINED INITIAL STATUS                        51480031
                                   12041+*                                                                  51510031
                          00000    12042+         USING SYSS00,R0,RB       SET STANDARD ADDRESSING      @D34RDFG 51540034
0090CC 91F0 0021      00021        12043+CLEARPAR TM    SVOLDP+1,KEY0       IS PSW KEY ZERO ?                51570031
0090D0 4770 09EA      009EA        12044+         BNZ   ERR21               NO,ILLEGAL SVC                   51600031
0090D4 5880 A004            00004  12045+         L     R8,PIBSAVE          LOAD ADDRESS OF SAVE AREA    @DM01264 51630031
0090D8 5870 0014            00014  12046+         L     R7,CRADDR           LOAD ADDR OF COMREG          @DM01264 51660031
                            00000  12047+         USING COMREG,R7           DECLARE BASE                 @DM11453 51690031
0090DC 94FB 70A4      000A4        12048+         NI    POWFLG1,XFF-POWIJCL JOB CONTROL FINISHED         @DY14187 51704034
0090E0 5810 07D4            007D4  12049+         L     R1,ABBOX            GET ENTRY TO                 @DM01264 51720031
0090E4 4A10 067E            0067E  12050+         AH    R1,PIK              BOUNDARY BOX                 @DM01264 51750031
                            00000  12051+         USING BBOXADR,R1          POINT TO ENTRY IN BBOX       @DM01264 51780031
0090E8 9271 087F      0087F        12052+         MVI   RID+D1,G58BND       PREPARE FOR GATING           @DM01264 51840031
0090EC 9583 0957      00957        12053+         CLI   TRTG58,READY        GATE OPEN ?                      51870031
0090F0 4770 B002      01002        12054+         BNE   GATEWAIT            NO,WAIT                          51900031
0090F4 D2C7 EEDE 8000 091C4 00000  12055+         MVC   RESA2(200),0(R8)    MOVE SAVE-AREA TO SUPERVISOR @DM01264 51960031
0090FA 4180 EEDE            091C4  12056+         LA    R8,RESA2            POINT TO SAVE AREA           @DM01264 51990031
0090FE D203 7020 8048 00020 00048  12057+         MVC   PPEND(L4),SVER07    MOVE HIGHEST STORAGE ADDR    @DM11453 52020031
                                   12058+*                                 OF PARTITION INTO COMREG     @DM01264 52050031
009104 BE87 A005            00005  12059+         STCM  R8,M7,PIBSAVE+D1    USE ADDR.OF TEMP SAVE AREA   @DM11663 52060031
009108 9180 8040      00040        12060+         TM    SVER05,REAL         WILL REAL JOB EXECUTE        @DM11282 52080031
00910C 4710 EEC2      091A8        12061+         BO    VIRTJOB             BRANCH IF NOT                @DM11282 52110031
009110 5830 1000            00000  12062+         L     R3,REALORP          LOAD ORIGIN OF REAL PART.    @DM01264 52140031
009114 4133 0010            00010  12063+         LA    R3,D16(R3)          RELOCATE ADDRESS IN PSW SO   @DM01264 52230031
009118 5030 800C            0000C  12064+         ST    R3,SVEPSW2          THAT CONTROL IS TRANSFERRED  @DM01264 52260031
                                   12065+*                                 TO REAL MODE PROGRAM         @DM01264 52290031
00911C 9835 8038            00038  12066+         LM    R3,R5,SVER03        LOAD PARAMETERS              @DM01264 52320031
009120 4560 EFBE            092A4  12067+         BAL   R6,INVPAGE1         INVALIDATE PT-ENTRIES            52350031
009124 5820 8034            00034  12068+         L     R2,SVER02           LOAD LOWER LIMIT             @DM01264 52380031
009128 5830 8048            00048  12069+         L     R3,SVER07           LOAD UPPER LIMIT             @DM01264 52410031
00912C 4133 0001            00001  12070+         LA    R3,D1(R3)                                            52440031
009130 947F A004      00004        12071+         NI    PIBDATFL,XFF-TRAM   INDICATE REAL MODE IN PIB            52470031
009134 4890 07C6            007C6  12072+         LH    R9,APNO                                              52530031
009138 0690                        12073+         BCTR  R9,R0               DECREASE NO. OF ACTIVE VIRTUAL   52560031
00913A 4090 07C6            007C6  12074+         STH   R9,APNO             PARTITIONS                       52590031
00913E 4540 E5BA            088A0  12075+         BAL   R4,GETREAL                                           52650031
009142 47F0 EEAC      09192        12076+         B     NRMEXIT             GETREAL COMPLETE             @DM02867 52710031

                                   12078+* GETREAL WILL BE CANCELED BECAUSE A REQUESTED PAGE FRAME IS   @DM02867 52770031
                                   12079+* FAILING STORAGE                                             @DM02867 52800031
009146 1928                        12080+         CR    R2,R8               IF NOT 1RST PAGE FRAME       @DM02867 52830031
009148 4770 EE8C      09172        12081+         BNE   CANCELGR            IS FAILING STORAGE, BRANCH   @DM02867 52860031
00914C 4180 EEDE            091C4  12082+         LA    R8,RESA2                                       @DM02867 52890031
009150 9605 8043      00043        12083+         OI    SVER05+D3,INVP+UNUSE                           @DM02867 52920031
009154 9200 8042      00042        12084+         MVI   SVER05+D2,ZERO      CLEAR HIGH ADDR.BIT          @DM02867 52950031
009158 9835 8038            00038  12085+         LM    R3,R5,SVER03        UPDATE PARAMETERS            @DM02867 52980031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00915C 1843                      12086+         LR    R4,R3              SO THAT ONLY 1RST PAGE       @DM02867 53010031
                                 12087+*                                 OF VIRT PARTITION IS         @DM02867 53040031
00915E 4560 EFBE           092A4 12088+         BAL   R6,INVPAGE1        INITIALIZED                  @DM02867 53070031
009162 5820 1008           00008 12089+         L     R2,VIRTORP                                      @DM02867 53100031
009166 4132 07FF           007FF 12090+         LA    R3,D2047(R2)                                    @DM02867 53160031
00916A 9680 A004      00004      12091+         OI    PIBDATFL,TRAM      INDICATE VIRT MODE IN PIB    @DM02867 53190031
00916E 47F0 EE8E      09174      12092+         B     MOVESA                                          @DM02867 53220031

009172 0630                      12094+CANCELGR BCTR  R3,0                                            @DM02867 53280031
009174 5870 0014           00014 12095+MOVESA   L     R7,CRADDR          LOAD POINTER TO COMREG       @DM02867 53310031
009178 D2C7 2000 EEDE 00000 091C4 12096+         MVC   D0(200,R2),RESA2   MOVE SAVE AREA TO PARTITION  @DM02867 53340031
00917E BE27 A005           00005 12097+         STCM  R2,M7,PIBSAVE+D1   UPDATE SAVE AREA ADDR        @DM11663 53350031
009182 5030 7020           00020 12098+         ST    R3,PPEND           UPDATE HIGHEST STORAGE ADDR  @DM11453 53370031
                                 12099+         DROP  R7                 DROP COMREG BASE             @DY14187 53400034
009186 58B0 0844           00844 12100+         L     RB,HEX1000         LOAD LOW CORE BASE           @D34RDFG 53430034
00918A 5860 086C           0086C 12101+         L     R6,DISPAD          RELOAD EXIT ADDR             @DM05356 53460033
00918E 47F0 0A02      00A02      12102+         B     ERR2D              CANCEL JOB                   @DM02867 53490031
009192 5830 EEEA           091D0 12103+NRMEXIT  L     R3,RESA2+D12       GET SAVE-AREA-ADDRESS        @DM11663 53550031
009196 4B30 EEDA           091C0 12104+         SH    R3,H16             FROM PSW (- 16)              @DM11663 53560031
00919A BE37 A005           00005 12105+         STCM  R3,M7,PIBSAVE+D1   STORE IN PIB                 @DM11663 53570031
00919E D2C7 3000 EEDE 00000 091C4 12106+         MVC   D0(200,R3),RESA2   MOVE SAVE-AREA TO PARTITION  @DM01264 53580031
0091A4 47F0 E344      0862A      12107+         B     PFEXIT                                                   53610031
                           091A8 12108+VIRTJOB  EQU   *                                                @DM11282 53640031
0091A8 5830 1008           00008 12109+         L     R3,VIRTORP         LOAD ORIGIN OF VIRT PART.    @DM01264 53670031
0091AC 4133 0010           00010 12110+         LA    R3,D16(R3)                                      @DM01264 53760031
0091B0 5030 800C           0000C 12111+         ST    R3,SVEPSW2         STORE NEW PSW ADDR           @DM01264 53790031
0091B4 9835 8038           00038 12112+         LM    R3,R5,SVER03       LOAD PARAMETERS              @DM01264 53820031
0091B8 4560 EFBE           092A4 12113+         BAL   R6,INVPAGE1        INVALIDATE PT-ENTRIES        @DM01264 53850031
0091BC 47F0 EEAC      09192      12114+         B     NRMEXIT                                         @DM11282 53880031
0091C0 0010                      12115+H16      DC    H'16'              DISPL. IN SAVEAREA PSWADDR   @DM11663 53890031
                           00000 12116+         USING CCBADR,R1          RESTORE STANDARD ADDRESSING            53910031
0091C2 0700                      12117+         CNOP  0,4                                                     53940031
0091C4                           12118+RESA2    DS    CL200                                                   53970031
                                 12119+*                                                                      54000031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  12121+*                                                                  54060031
                                  12122+*                                                                  54090031
                                  12123+*                                                                  54120031
                                  12124+* THIS SVC-ROUTINE INITIALIZES THE PAGE-TABLE AND PAGE-            54150031
                                  12125+* FRAME-TABLE FOR SPECIFIED PAGES                                  54180031
                                  12126+*                                                                  54210031
                                  12127+*                                                                  54240031
00928C 91F0 0021      00021       12128+INVPAGE  TM    SVOLDP+1,KEY0      IS PSW KEY ZERO ?                54270031
009290 4770 09EA      009EA       12129+         BNZ   ERR21              NO,ILLEGAL SVC                   54300031
009294 5850 0014            00014 12130+         L     R5,CRADDR          CALLERS COMREG          @DY14187 54310034
009298 9604 50A4      000A4       12131+         OI    POWFLG1-COMREG(R5),POWIJCL PARTITION IN JCL @DY14187 54315034
00929C 5850 A004            00004 12132+         L     R5,PIBSAVE         GET SAVE AREA                    54330031
                            00000 12133+         USING SVEARA,R5                                           54360031
                                  12134+         DROP  R8                 FORGET ABOUT STANDARD ADDRESSING 54390031
0092A0 9835 5038            00038 12135+         LM    R3,R5,SVER03       LOAD PARAMETERS FROM USER SAVEAREA 54420031
0092A4 4133 0000            00000 12136+INVPAGE1 LA    R3,D0(R3)          CLEAR HIGH ORDER BYTE            54450031
0092A8 4144 0000            00000 12137+         LA    R4,D0(R4)          CLEAR HIGH ORDER BYTE            54480031
                            00000 12138+         USING SVEARA,R8          RESTORE STANDARD ADDRESSING      54510031
                                  12139+         DROP  R5                 GET RID OF TEMPORARY BASE @DM02911 54540031
0092AC 9079 F08E            09374 12140+         STM   R7,R9,RESA1        SAVE REGISTERS R7-R9      @D32XDRP 54543032
0092B0 5890 077C            0077C 12141+         L     R9,ACCWT           LOAD 1ST BASE REG OF CCW-TR. @D32XDRP 54549032
0092B4 58B0 08C8            008C8 12142+         L     RB,ACCWT2          LOAD 2ND BASE REG OF CCW-TR. @DA08664 54551033
                            06B70 12143+         USING CCWTADR,R9,RB      ADDRESSABILITY            @DA08664 54553033
0092B8 4870 067E            0067E 12144+         LH    R7,PIK             ACCESS                    @D32XDRP 54555032
0092BC 8870 0002            00002 12145+         SRL   R7,L2              PARTITION'S               @D32XDRP 54558032
0092C0 5A70 900C            06B7C 12146+         A     R7,RQBASE          REPLICA QUEUE             @DA08664 54561033
0092C4 4580 9F76            07AE6 12147+         BAL   R8,DELREPA         DELETE REPL OF PART.      @DA08664 54580033
0092C8 58B0 0844            00844 12148+         L     RB,HEX1000         STANDARD BASE             @DA08664 54590033
                            00000 12149+         USING SYSS00,R0,RB       SET STANDARD ADDRESSING   @D34RDFG 54592034
                            02EDA 12150+         USING INTRTN,R9          SET STANDARD ADDRESSING   @DA08664 54592433
0092CC 9879 F08E            09374 12151+         LM    R7,R9,RESA1        RESTORE REGISTERS R7-R9   @D32XDRP 54594032
0092D0 9046 F092            09378 12152+         STM   R4,R6,RESA1+4      SAVE REGISTER R4-R6       @D32XDRP 54600032
0092D4 5030 F08E            09374 12153+SAVE     ST    R3,RESA1           SAVE R3                   @D32XDRP 54620032
0092D8 9104 3001      00001       12154+         TM    D1(R3),INVP        PAGE INVALID ?            @D32XDRP 54640032
0092DC 4710 F076      0935C       12155+         BO    SETPTENT           YES, BRANCH                        54660031
0092E0 9180 3000      00000       12156+         TM    D0(R3),HIGHAD      ADDRESS INVALID ?                  54690031
0092E4 4710 F076      0935C       12157+         BO    SETPTENT           YES, BRANCH                        54720031
0092E8 4833 0000            00000 12158+         LH    WKREG3,D0(R3)      GET PT-ENTRY                       54750031
0092EC 8830 0003            00003 12159+         SRL   WKREG3,THREE       ELIMIN. LOW ORDER BITS             54780031
0092F0 5030 F08A            09370 12160+         ST    WKREG3,OPFCOTA     SAVE COUNTER TABLE FOR PFIX        54810031
0092F4 8930 000B            0000B 12161+         SLL   WKREG3,ELEVEN     GET ADDRESS OG PAGE FRAME          54840031
0092F8 1B22                       12162+         SR    WKREG2,WKREG2      GET STORAGE KEY IN R2              54870031
0092FA 0823                       12163+         SSK   WKREG2,WKREG3      SET STORAGE KEY ZERO               54900031
0092FC 8830 0008            00008 12164+         SRL   WKREG3,EIGHT       GET OFFSET PF-TABLE                54930031
009300 5860 07CC            007CC 12165+         L     R6,APFT            POINT R6 TO PF-TABLE               54960031
009304 1A36                       12166+         AR    R3,R6              * R3 TO PROPER PFT-ENTRY            54990031
009306 92FF 3004      00004       12167+         MVI   PN(WKREG3),XFF     SET PF-TABLE ENTRY                 55020031
00930A 92FF 3005      00005       12168+         MVI   PN+1(WKREG3),XFF       TO UNUSED                      55050031
00930E 9102 3001      00001       12169+         TM    D1(R3),SP          SP BIT ON?                @DA00563 55080031
009312 47E0 F03C      09322       12170+         BNO   INPOOL             NO,BRANCH                 @DA00563 55110031
009316 92F0 F053      09339       12171+         MVI   NOREMOVE+1,X'F0'   SET SWITCH                @DA00563 55140031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00931A 9200 3000      00000       12172+         MVI   0(WKREG3),0         CLEAR                          @DA00563 55170031
00931E 941F 3001      00001       12173+         NI    D1(WKREG3),X'1F'    T-FIX COUNTER                  @DA00563 55200031
009322 94FD 3001      00001       12174+INPOOL   NI    D1(WKREG3),XFF-SP   INSERT P-F IN SEL POOL          @DA00563 55230031
009326 1B36                       12175+         SR    WKREG3,R6           GET OFFSET PF-TABLE                     55440031
009328 5820 F08A            09370 12176+         L     WKREG2,OPFCOTA      LOAD COUNTER TABLE OFFSET               55500031
00932C 5A20 07D0            007D0 12177+         A     WKREG2,APFTX        ADD TABLE BEGIN                         55530031
009330 9500 2000      00000       12178+         CLI   D0(WKREG2),0        PAGE FIXED ?                            55560031
009334 4770 F05A      09340       12179+         BNE   INSERT                                                      55590031
009338 4700 F05A            09340 12180+NOREMOVE BC    0,INSERT            SWITCH FOR TFIX CNTR           @DA00563 55650031
00933C 4590 F888            09B6E 12181+         BAL   R9,REMOVE           REMOVE PAGE FROM QUEUE         @DA00563 55680031
009340 5870 ED32            09018 12182+INSERT   L     R7,Q00                                                    55710031
009344 9200 F053      09339       12183+         MVI   NOREMOVE+1,X'00'    RESET SWITCH                   @DA00563 55740031
009348 4590 F89A            09B80 12184+         BAL   R9,INSTOP           INSERT AT TOP                           55770031
00934C 9283 095D      0095D       12185+         MVI   TRTFIX,READY        POST PMR TASK                  @DM12800 55771032
009350 9283 0953      00953       12186+         MVI   TRTPFG,READY        POST TASK WAIT FOR PAGEFR      @DM12800 55773032
009354 9200 2000      00000       12187+         MVI   D0(WKREG2),0        ZERO PFIX-COUNTER                       55830031
009358 9836 F08E            09374 12188+         LM    R3,R6,RESA1         RESTORE THE REGISTERS                   55860031
00935C 4053 0000            00000 12189+SETPTENT STH   R5,D0(R3)           SET NEW PT-ENTRY                        55890031
009360 B20D 0000                  12190+         PTLB                      PURGE TABLE                             55920031
009364 1943                       12191+         CR    R4,R3               LAST PAGE ?                             55950031
009366 0786                       12192+         BCR   E,R6                RETURN,IF YES                           55980031
009368 4133 0002            00002 12193+         LA    R3,2(R3)            BUMP UP R3                              56010031
00936C 47F0 EFEE      092D4       12194+         B     SAVE                                                        56040031
009370                            12195+         DS    0F                                                          56070031
009370                            12196+OPFCOTA  DS    F                                                           56100031
009374                            12197+RESA1    DS    4F                                              @D32XDRP 56148032
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 12199+*                                                                    56220031
                                 12200+*        FUNCTION :               PFREE PAGES OF A TASK RUNNING IN   56250031
                                 12201+*                                 VIRTUAL MODE                       56280031
                                 12202+*        PARAMETERS :             R1   POINTER TO PARAMETER LIST     56310031
                                 12203+*                                                                    56340031
                                 12204+*        ENTRY POINTS :           STARTPFR                           56370031
                                 12205+*                                 BTPFREE ( FROM BTAM APPENDAGE )    56400031
                                 12206+*                                 PFRLIST ( FROM PFIX )              56430031
                                 12207+*                                                                    56460031
                                 12208+*        REGISTER USAGE :                                            56490031
                                 12209+*             R1 - POINTER TO CURRENT LIST ENTRY                     56520031
                                 12210+*             R2 - ADDR OF PAGE TO BE PFREED                         56550031
                                 12211+*             R3 - RETURN REGISTER                                   56580031
                                 12212+*             R4 - REMAINING LENGTH OF AREA TO BE PFREED             56610031
                                 12213+*             R5 - WORK REGISTER                                     56640031
                                 12214+*             R6 - WORK REGISTER                                     56670031
                                 12215+*             R7 - USED BY PFIX                                      56700031
                                 12216+*             R8 - USED BY PFIX                                      56730031
                                 12217+*             R9 - LINK AND WORK REGISTER                            56760031
                                 12218+*             RA - PIB POINTER                                       56790031
                                 12219+*             RB - PFTE-ADDR OF PF WHICH WILL BE PFREED              56820031
                                 12220+*             RC - LINK AND WORK REGISTER                            56850031
                                 12221+*                                                                    56880031
                                 12222+*             RETURN CODES :                                         56910031
                                 12223+*                  0 - ALL PAGES PFIXED                              56940031
                                 12224+*                 12 - INVALID PARAMETERS IN LIST                    56970031
                                 12225+*                                                                    57000031


                           00000 12227+          USING BBOXADR,R5                                           57060031
009384 4130 F166           0944C 12228+STARTPFR  LA    R3,RC0PFR          SET RETURN REGISTER        @DM01261 57090031
009388 9180 A004      00004      12229+          TM    PIBDATFL,TRAM      IF REQU. TASK RUNS IN REAL MODE     57120031
00938C 0783                      12230+          BCR   Z,R3               IGNORE REQUEST                      57150031
                           0938E 12231+BTPFREE   EQU   *                                           @DM01753 57180031
00938E 1B00                      12232+          SR    R0,R0              IDENTIFY NORM.PFREE REQ.  @DL28505 57210031
009390 47F0 F0B8      0939E      12233+          B     PFREELST                                             57240031

009394 5010 E47A           08760 12235+PFRLIST   ST    R1,R1SVE           SAVE END ADDRESSES FOR PFREE       57300031
009398 5020 E47E           08764 12236+          ST    R2,R2SVE                                              57330031
00939C 1810                      12237+          LR    R1,R0                                                 57360031
00939E 4190 F0C4           093AA 12238+PFREELST  LA    R9,NPAGE+D4        LOAD RETURN ADDR FOR SUBROUTINE    57390031
0093A2 47F0 F254      0953A      12239+          B     GETPADR                                               57420031

0093A6 4590 F266           0954C 12241+NPAGE     BAL   R9,GETNPADR        DETERMINE NEXT PAGE TO BE PFREED   57480031
0093AA 47F3 0000      00000      12242+          B     0(R3)              RETURN TO REQUESTOR        @DA03231 57510031

0093AE 1200                      12244+CHKFEND   LTR   R0,R0              NORM.PFREE REQ.            @DL28505 57570031
0093B0 4780 F0DC      093C2      12245+          BZ    PFRPGE             YES,DONT CHCK FOR END OF LST @DL28505 57600031
0093B4 5910 E47A           08760 12246+          C     R1,R1SVE                                      @DL28505 57630031
0093B8 4770 F0DC      093C2      12247+          BNE   PFRPGE                                                57660031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0093BC 5920 E47E            08764 12248+         C     R2,R2SVE           IF END OF LIST (PFREE CALLED BY       57690031
0093C0 0783                       12249+         BCR   E,R3               PFIX), RETURN                         57720031
0093C2 4850 067E            0067E 12250+PFRPGE   LH    R5,PIK             VALIDATE RETURNED ADDR                57750031
0093C6 5A50 07D4            007D4 12251+         A     R5,ABBOX                                                 57780031
0093CA 5920 5008            00008 12252+         C     R2,VIRTORP                                               57810031
0093CE 4740 F16C      09452       12253+         BL    RC12PFR                                      @DM00656    57840031
0093D2 5920 500C            0000C 12254+         C     R2,VIRTENDP                                              57870031
0093D6 47B0 F16C      09452       12255+         BNL   RC12PFR                                      @DM00656    57900031
0093DA 1244                       12256+         LTR   R4,R4              IF LENGTH PARAMETER NEGATIVE          57930031
0093DC 4740 F16C      09452       12257+         BL    RC12PFR            BRANCH                     @DM00656    57960031
0093E0 B152 0000            00000 12258+         LRA   R5,D0(R2)          GET PAGE FRAME ADDR                   57990031
0093E4 4770 F0C0      093A6       12259+         BNZ   NPAGE              IF PAGE NOT IN CORE                   58020031
0093E8 5950 07E4            007E4 12260+         C     R5,EOCADDR                                   @DM11453    58050031
0093EC 4720 F0C0      093A6       12261+         BH    NPAGE              GO TO PFREE NEXT PAGE                 58080031
0093F0 4590 D140            0A426 12262+         BAL   R9,DPFREE          PFREE PAGE                            58140031
0093F4 47F0 F0C0      093A6       12263+         B     NPAGE              PFIC ^= 0  OR  PFIXC WAS 0            58200031
0093F8 9102 B001      00001       12264+         TM    D1(RB),SP          IF PAGE STILL TFIXED                  58230031
0093FC 4710 F0C0      093A6       12265+         BO    NPAGE              BRANCH TO PROCESS NEXT PAGE           58260031
009400 9283 095D      0095D       12266+         MVI   TRTFIX,READY       POST PSE TASK                         58290031
009404 9283 0953      00953       12267+         MVI   TRTPFG,READY       POST TASKS WAITING FOR FREED PAGE     58350031
009408 9101 B001      00001       12268+         TM    D1(RB),NF          IF PAGE FRAME NOT NF-BOUND            58380031
00940C 4780 F0C0      093A6       12269+         BZ    NPAGE              BRANCH TO PROCESS NEXT PAGE           58410031
009410 4860 067E            0067E 12270+         LH    R6,PIK                                                   58440031
009414 8860 0002            00002 12271+         SRL   R6,2               GET FIXWTAB ENTRY OF PARTITION OF     58470031
009418 18A6                       12272+         LR    RA,R6              SET BIT IN DEFIXSW          @D32XDRP  58475032
00941A 88A0 0002            00002 12273+         SRL   RA,L2              OFF WHICH CORRESP.          @D32XDRP  58480032
00941E 43AA E48E            08774 12274+         IC    RA,BITTAB(RA)      TO PARTITION OF             @D32XDRP  58485032
009422 44A0 E6F0            089D6 12275+         EX    RA,SETDEFIX        THIS TASK                   @D32XDRP  58490032
009426 44A0 E6F4            089DA 12276+         EX    RA,OFFDEFIX                                    @D32XDRP  58495032
00942A 5A60 E486            0876C 12277+         A     R6,AFIXWTAB        REQUESTING TASK                       58500031
00942E BEB7 6001            00001 12278+         STCM  RB,M7,D1(R6)       STORE PFTE-ADDR OF RESERVED PAGE      58530031
                                  12279+*                                 FRAME                                 58560031
009432 1BAA                       12280+         SR    RA,RA                                                    58590031
009434 43A6 0000            00000 12281+         IC    RA,D0(R6)          GET TIK OF WAITING TASK               58620031
009438 4AA0 06AA            006AA 12282+         AH    RA,YPIBTAB                                               58650031
00943C 94FB A000      00000       12283+         NI    PIBFLG,RCOMPL      POST WAITING TASK                     58680031
009440 4590 F518            097FE 12284+         BAL   R9,GPFTEBDS        GET PFTE-ADDRESSES OF REAL            58710031
                                  12285+*                                 PARTITION BOUNDARIES                  58740031
009444 4590 E906            08BEC 12286+         BAL   R9,RESNFBTS        RESET NF-BITS OF ALL PFTE'S OF THE    58770031
                                  12287+*                                 REAL PARTITION EXCEPT FOR THE         58800031
                                  12288+*                                 RESERVED PAGE FRAME                   58830031
009448 47F0 F0C0      093A6       12289+         B     NPAGE              BRANCH TO PROCESS NEXT PAGE           58890031

00944C 1B33                       12291+RC0PFR   SR    R3,R3              SET RC 0                    @DM00656  58950031
00944E 47F0 F45C      09742       12292+         B     PFREXIT                                        @DM00656  58980031
                            09452 12293+RC12PFR  EQU   *                                          @DM00656  59010031
009452 4180 E4BA            087A0 12294+         LA    R8,BTMRC0                                      @DM01261  59070031
009456 4133 0000            00000 12295+         LA    R3,D0(R3)                                      @DM01261  59100031
00945A 1983                       12296+         CR    R8,R3              IF PFREE ISSUED FROM BTAM   @DM01261  59130031
00945C 4780 E4C0      087A6       12297+         BE    BTMRC12            APPENDAGE , BRANCH          @DM01261  59160031
009460 4130 000C            0000C 12298+         LA    R3,12              SET RC 12                   @DM00656  59220031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
009464 47F0 F45C      09742       12299+         B     PFREXIT                                        @DM00656 59250031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

009468 1B00                      12301+STPFIXRS SR    R0,R0              INDICATE PFIX-RESTART REQUEST          59310031
00946A 4590 F254           0953A 12302+NXTENTR  BAL   R9,GETPADR         GET ADDR OF PAGE TO BE PFIXED          59340031
00946E 47F0 E344      0862A      12303+         B     PFEXIT             RETURN HERE IF END OF LIST             59370031
009472 4144 0000           00000 12304+         LA    R4,D0(R4)          GET ADDR OF PAGE FRAME                 59400031
009476 8840 0008           00008 12305+         SRL   R4,8               AND                                    59430031
00947A 5850 07CC           007CC 12306+         L     R5,APFT            ADDR OF CORR. PFTE                     59460031
00947E 1A54                      12307+         AR    R5,R4                                                     59490031
009480 8840 0003           00003 12308+         SRL   R4,3               AND                                    59520031
009484 5A40 07D0           007D0 12309+         A     R4,APFTX           ADDR OF PFT-EXTENTION                  59550031
009488 4860 067E           0067E 12310+         LH    R6,PIK                                                    59580031
00948C 8860 0002           00002 12311+         SRL   R6,2               GET FIXWTAB ENTRY OF THE               59610031
009490 5A60 E486           0876C 12312+         A     R6,AFIXWTAB        PARTITION OF THE RQUESTOR              59640031
009494 D200 6000 0753 00000 00753 12313+         MVC   D0(L1,R6),TIK+D1   INSERT TIK INTO FIXWTAB-ENTRY          59700031
00949A 91E0 5001      00001      12314+STPFIXR1 TM    D1(R5),X'E0'       TFIX COUNT.=0              @D32XDRP 59760032
00949E 4770 F1C4      094AA      12315+         BNZ   YRWT               NO                         @DM01523 59790031
0094A2 91FF 5000      00000      12316+         TM    D0(R5),XFF         WHOLE TFIX COUNT=0         @DM01523 59820031
0094A6 4780 F1FE      094E4      12317+         BZ    NRWT               YES,NO WAIT NECESSARY      @DM01523 59850031
                           094AA 12318+YRWT     EQU   *                                           @D32XDRP 59852032
0094AA D501 08C6 E3D6 008C6 086BC 12319+         CLC   LOWFXPTR,F0        PAGES FIXED BY FAST-TRANSL.? @D32XDRP 59856032
0094B0 4780 F1E2      094C8      12320+         BZ    STPFIXR2           NO, BRANCH                 @D32XDRP 59858032
0094B4 9089 F08E           09374 12321+         STM   R8,R9,RESA1        SAVE REGISTERS             @D32XDRP 59860032
0094B8 5890 077C           0077C 12322+         L     R9,ACCWT           LOAD 1ST BASE REG. OF CCWTR @D32XDRP 59862032
0094BC 4589 0F48           00F48 12323+         BAL   R8,DEFIXALL-CCWTADR(R9)   FREE PAGES          @D32XDRP 59864032
0094C0 9889 F08E           09374 12324+         LM    R8,R9,RESA1        RESTORE REGISTERS          @D32XDRP 59866032
0094C4 47F0 F1B4      0949A      12325+         B     STPFIXR1           TRY IT ONCE MORE           @D32XDRP 59868032
0094C8 48C0 067E           0067E 12326+STPFIXR2 LH    RC,PIK             SET CORRECT BIT            @D32XDRP 59870032
0094CC 88C0 0004           00004 12327+         SRL   RC,L4              IN DEFIXSW TO              @D32XDRP 59872032
0094D0 43CC E48E           08774 12328+         IC    RC,BITTAB(RC)      INDICATE DEFIXING QUEUE    @D32XDRP 59874032
0094D4 44C0 E6F0           089D6 12329+         EX    RC,SETDEFIX        FOR FAST-TRANSL.           @D32XDRP 59876032
0094D8 9601 5001      00001      12330+         OI    D1(R5),NF          SET ON NOT FIX.P.FRAME BIT @D32XDRP 59880032
0094DC 9687 A000      00000      12331+         OI    PIBFLG,BOUND       SET TASK INTO WAIT STATE   @DM01523 59910031
0094E0 45C0 E282           08568 12332+         BAL   RC,RWAIT           WAIT FOR TFREE             @DM01523 59940031
                                 12333+*        CONTROL WILL BE TRANSFERRED TO THIS POINT AFTER TFREE @DM01523 59970031
                           094E4 12334+NRWT     EQU   *                                           @DM01523 60000031
0094E4 4155 0001           00001 12335+         LA    R5,D1(R5)          INDICATE PFIX-RESTART IN FIXWTAB 60030031
0094E8 BE57 6001           00001 12336+         STCM  R5,M7,D1(R6)       STORE PFTE-ADDR OF RESERVED PAGE 60060031
                                 12337+*                                 FRAME                            60090031
0094EC 1B33                      12338+         SR    R3,R3                                                60120031
0094EE 4331 0004           00004 12339+         IC    R3,D4(R1)          GET PFIX COUNTER,                 60150031
0094F2 0630                      12340+         BCTR  R3,0               DECREASE IT BY ONE                60180031
0094F4 4234 0000           00000 12341+         STC   R3,D0(R4)          AND STORE IT INTO PFTX-ENTRY      60210031
0094F8 4111 0008           00008 12342+         LA    R1,D8(R1)          POINT TO NEXT LIST-ENTRY          60240031
0094FC 47F0 F382      09668      12343+         B     LOADRA2            GO TO PROCESS PFIX-REQUEST        60270031
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 12345+*                                                                  60330031
                                 12346+*        FUNCTION :               PFIX PAGES OF A TASK RUNNING IN  60360031
                                 12347+*                                 VIRTUAL MODE IN THE CORRESPONDING 60390031
                                 12348+*                                 REAL PARTITION                   60420031
                                 12349+*        PARAMETERS :             R1   POINTER TO PARAMETER LIST   60450031
                                 12350+*                                                                  60480031
                                 12351+*        ENTRY POINTS :           STRTPFIX AND                     60510031
                                 12352+*                                 LOADRA2 (FROM PFIX-RESTART)      60540031
                                 12353+*                                                                  60570031
                                 12354+*        REGISTER USAGE :                                          60600031
                                 12355+*             R0 - POINTER TO PARAMETER LIST                       60630031
                                 12356+*                  ( OR ZERO IF ENTERED FROM PFIX-RESTART )        60660031
                                 12357+*             R1 - POINTER TO CURRENT LIST ENTRY                   60690031
                                 12358+*             R2 - ADDR OF PAGE TO BE PFIXED                       60720031
                                 12359+*             R3 - LINK REGISTER TO PFREE AND WORK REGISTER        60750031
                                 12360+*             R4 - REMAINING LENGTH OF AREA TO BE PFIXED           60780031
                                 12361+*             R5 - WORK REGISTER AND POINTER TO BBOX ENTRY          60810031
                                 12362+*             R6 - WORK REGISTER AND POINTER TO FIXWTAB ENTRY       60840031
                                 12363+*             R7 - PFTE-ADDR OF 1ST PF OF REAL PARTITION           60870031
                                 12364+*             R8 - PFTE-ADDR OF 1ST PF OF NEXT REAL PARTITION      60900031
                                 12365+*             R9 - LINK AND WORK REGISTER                          60930031
                                 12366+*             RA - PIB POINTER                                     60960031
                                 12367+*             RB - PFTE-ADDR OF PF IN WHICH THE PAGE WILL BE PFIXED 60990031
                                 12368+*             RC - LINK AND WORK REGISTER                          61020031
                                 12369+*                                                                  61050031
                                 12370+*        RETURN CODES :                                            61080031
                                 12371+*             0 - ALL PAGES PFIXED                                 61110031
                                 12372+*             4 - NOT ENOUGH PAGE FRAMES AVAILABLE IN REAL         61140031
                                 12373+*                 PARTITION ( NO PF OF LIST PFIXED )               61170031
                                 12374+*             8 - NOT ENOUGH PAGE FRAMES AVAILABLE IN REAL         61200031
                                 12375+*                 PARTITION BUT AT LEAST ONE PAGE OF ANOTHER       61230031
                                 12376+*                 REQUEST PFIXED ( NO PF OF LIST PFIXED )          61260031
                                 12377+*            12 - INVALID PARAMETERS IN LIST                       61290031
                                 12378+*                 ( NO PAGE FRAME OF LIST PFIXED )                 61320031
                                 12379+*                                                                  61350031


009500 9180 A004      00004      12381+STRTPFIX TM    PIBDATFL,TRAM    IF REQU. TASK RUNS IN REAL MODE  61410031
009504 4780 F432      09718      12382+         BZ    RC0              IGNORE REQUEST                   61440031
009508 4890 067E            0067E 12383+         LH    R9,PIK                                            61500031
00950C 8890 0003            00003 12384+         SRL   R9,3             GET DISPL. OF PFIX-BOUND-  @DF00939 61530031
009510 4199 0049            00049 12385+         LA    R9,BNDBG-D2(R9)  BYTE IN RESOURCE TABLE     @DF00939 61560031
009514 4090 087E            0087E 12386+         STH   R9,RID           SET RID TO IDENTIFY ROUTINE      61590031
009518 4199 08E6            008E6 12387+         LA    R9,RETAB(R9)     POINT TO CORRESPONDING RESOURCE  61620031
                                  12388+*                               TABLE ENTRY                      61650031
00951C 9583 9000      00000      12389+         CLI   D0(R9),READY     IF GATE OF PARTITION FOR PFIX    61710031
009520 4770 B002      01002      12390+         BNE   GATEWAIT         CLOSED, BRANCH                   61740031
009524 58D0 E49E            08784 12391+         L     RD,BSEADRS       RESTORE THIRD PMGR BASE   @DM04285 61770031
009528 4590 F518            097FE 12392+         BAL   R9,GPFTEBDS      GET PFTE-ADDRESSES OF REAL       61830031
                                  12393+*                               PARTITION BOUNDARIES             61860031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00952C 1B33                      12394+         SR    R3,R3              INIT R3 FOR COMPUTATION OF RC@DM00674 61890031
00952E 1978                      12395+         CR    R7,R8              IF REAL PARTITION ZERO                61920031
009530 4780 F448      0972E      12396+         BE    RC4                RETURN WITH RC 4                      61950031
009534 1801                      12397+         LR    R0,R1              SAVE POINTER TO BEGIN OF LIST         61980031
009536 4190 F3C0            096A6 12398+         LA    R9,RETADDR         LOAD RETURN ADDR                      62010031

                                 12400+* THIS SUBROUTINE DETERMINES THE NEXT PAGE TO BE PFIXED, PFREED         62130031
                                 12401+*        OR HANDLED BY PAGEIN TASK                          @DL2982F 62160031
00953A 9500 1000      00000      12402+GETPADR  CLI   D0(R1),M0           IF END OF LIST                        62190031
                            0953E 12403+PCKSVC67 EQU   *                                                     62220031
00953E 0779                      12404+         BCR   NE,R9              RETURN VIA EXIT 1                     62250031
009540 5821 0000            00000 12405+         L     R2,D0(R1)          GET BEGIN ADDR OF AREA TO BE PFIXED   62280031
                                 12406+*                                 OR PFREED                             62310031
009544 5841 0004            00004 12407+         L     R4,D4(R1)          GET LENGTH OF THAT AREA               62340031
009548 47F9 0004      00004      12408+         B     D4(R9)             RETURN VIA EXIT 2                     62370031

00954C 4940 F298            0957E 12410+GETNPADR CH    R4,HEX800          IF REMAINING LENGTH OF AREA SMALLER   62430031
009550 4740 F27A      09560      12411+         BL    TSTLEN             THAN THE LENGTH OF A PAGE, BRANCH     62460031
009554 4B40 F298            0957E 12412+         SH    R4,HEX800          DECREASE LENGTH OF AREA               62490031
009558 4122 0800            00800 12413+         LA    R2,D2048(R2)       POINT TO NEXT PAGE                    62520031
00955C 47F9 0004      00004      12414+         B     D4(R9)             RETURN                                62550031

009560 1852                      12416+TSTLEN   LR    R5,R2                                                    62610031
009562 1A24                      12417+         AR    R2,R4              UPDATE LOGICAL ADDR                   62640031
009564 1862                      12418+         LR    R6,R2                                                    62670031
009566 1B44                      12419+         SR    R4,R4              SET LENGTH TO ZERO                    62700031
009568 5450 F9FA            09CE0 12420+         N     R5,MASK            GET PAGE ADDRESSES OF OLD AND         62730031
00956C 5460 F9FA            09CE0 12421+         N     R6,MASK            UPDATED LOGICAL ADDR                  62760031
009570 1965                      12422+         CR    R6,R5              IF NEW ADDR IN NEXT PAGE              62790031
009572 4779 0004      00004      12423+         BNE   D4(R9)             RETURN VIA EXIT 2                     62820031
009576 4111 0008            00008 12424+         LA    R1,D8(R1)          ELSE POINT TO NEXT ENTRY OF LIST      62850031
00957A 47F0 F254      0953A      12425+         B     GETPADR                                                  62880031

00957E 0800                      12427+HEX800   DC    H'2048'                                    @DL2982F 62940031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  12429+* THIS ROUTINE LOOKS FOR A PAGE FRAME IN THE REAL PARTITION OF THE      63030031
                                  12430+* REQUESTOR                                                            63060031
009580 940F F2ED      095D3       12431+LOOKFPF  NI    NPFRSW+D1,X'0F'    INITIALIZE NO-PAGE-FRAME-FOUND-    63090031
                                  12432+*                                 INDICATOR                          63120031
009584 1857                       12433+         LR    R5,R7                                                 63150031
009586 5B50 07CC            007CC 12434+         S     R5,APFT            GET THE START ADDR OF THE PFT-     63180031
00958A 8850 0003            00003 12435+         SRL   R5,3               EXTENTION OF THE REAL              63210031
00958E 5A50 07D0            007D0 12436+         A     R5,APFTX           PARTITION OF THE REQUESTOR         63240031
009592 5050 E482            08768 12437+         ST    R5,APFTXP          AND SAVE THIS ADDR                 63270031
009596 1897                       12438+         LR    R9,R7                                                 63300031
009598 9104 9001      00001       12439+TSTSPB   TM    D1(R9),DRAPBIT     IF PAGE FRAME IS FAILING           63330031
00959C 4710 F2DE      095C4       12440+         BO    NEXTPFR            STORAGE, BRANCH                    63360031
0095A0 9500 5000      00000       12441+         CLI   D0(R5),M0          IF PAGE PFIXED                     63390031
0095A4 4770 F2DE      095C4       12442+         BNE   NEXTPFR            BRANCH                             63420031
0095A8 96F0 F2ED      095D3       12443+         OI    NPFRSW+D1,X'F0'    ELSE INDICATE AT LEAST ONE PAGE    63450031
                                  12444+*                                 PAGE FRAME NOT PFIXED IN REAL      63480031
                                  12445+*                                 PARTITION OF REQUESTOR             63510031
0095AC 48C9 0000            00000 12446+         LH    RC,D0(R9)          GET TFIX COUNT           @DA06526  63540032
0095B0 54C0 FA06            09CEC 12447+         N     RC,MASKTFXC        ONLY LOOK AT TFIX COUNT  @DA06526  63570032
0095B4 4770 F2DE      095C4       12448+         BNZ   NEXTPFR            BR IF TFIXED             @DA06526  63600032
0095B8 9102 9001      00001       12449+         TM    D1(R9),SP          PAGEIO IN PROGRESS       @DA02713  63630031
0095BC 4780 F328      0960E       12450+         BZ    PFRFND             NO, THIS IT THE ONE TO USE @DA02713  63660031
0095C0 BE97 6001            00001 12451+         STCM  R9,M7,D1(R6)       SAVE PAGEIO FRAME IN FIXWTAB @DA02713 63690031
0095C4 4155 0001            00001 12452+NEXTPFR  LA    R5,D1(R5)          POINT TO NEXT PFTX-ENTRY           63720031
0095C8 4199 0008            00008 12453+         LA    R9,D8(R9)          POINT TO NEXT PFT-ENTRY            63750031
0095CC 1998                       12454+         CR    R9,R8              IF END OF REAL PARTITION NOT       63780031
0095CE 4770 F2B2      09598       12455+         BNE   TSTSPB             REACHED, BRANCH                    63810031
                                  12456+* NO PAGE FRAME FOUND IN REAL PARTTITION                               63840031
0095D2 47F0 F334      0961A       12457+NPFRSW   B     TONFBTS            BRANCH IF NOT ALL PAGE FRAMES      63870031
                                  12458+*                                 PFIXED IN REAL PARTTITION          63900031
0095D6 4530 F0AE            09394 12459+         BAL   R3,PFRLIST         PFREE ALREADY PFIXED PAGES OF      63930031
                                  12460+*                                 THIS PFIX-REQUEST                  63960031
0095DA 9201 E481      08767       12461+         MVI   R2SVE+D3,M1        RESET END OF LIST INDICATOR        63990031
0095DE 5850 E482            08768 12462+         L     R5,APFTXP                                             64020031
0095E2 1B33                       12463+         SR    R3,R3              INITIALIZE R3 FOR COMPUTATION OF RC 64050031
0095E4 9500 5000      00000       12464+         CLI   D0(R5),M0          IF 1ST PAGE OF REAL PARTITION      64080031
0095E8 4770 F444      0972A       12465+         BNE   RC8                STILL PFIXED, BRANCH               64110031
0095EC 1B87                       12466+         SR    R8,R7              GET LENGTH OF THE PFT-EXTENTION    64140031
0095EE 8880 0003            00003 12467+         SRL   R8,3               OF THE PARTITION                   64170031
0095F2 4680 F31A            09600 12468+         BCT   R8,EXCLC           BRANCH IF REAL PARTITION           64200031
                                  12469+*                                 GREATER THAN ONE PAGE              64230031
0095F6 47F0 F448      0972E       12470+         B     RC4                                                   64260031

0095FA D500 5000 5001 00000 00001 12472+TPFTXP   CLC   D0(0,R5),D1(R5)                                       64320031
009600 0680                       12473+EXCLC    BCTR  R8,0                                                  64350031
009602 4480 F314            095FA 12474+         EX    R8,TPFTXP          IF NO PAGE FRAME PFIXED IN REAL    64380031
009606 4780 F448      0972E       12475+         BE    RC4                PARTITION : RC 4                   64410031
00960A 47F0 F444      0972A       12476+         B     RC8                ELSE      : RC 8                   64440031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00960E BE97 6001            00001 12478+PFRFND   STCM  R9,M7,D1(R6)       SET ADDR OF RESERVED PAGE FRAME       64500031
                                  12479+*                                  INTO FIXWTAB ENTRY                    64530031
009612 9601 9001      00001       12480+PFRFND1  OI    D1(R9),NF          INDICATE PAGE FRAME NOT      @DA02713 64560031
009616 47F0 F382      09668       12481+         B     LOADRA2            TEMPORARY FIXABLE            @DA02713 64590031

                            0961A 12483+TONFBTS  EQU   *                                            @DA02713 64650031
00961A BF97 6001            00001 12484+         ICM   R9,M7,D1(R6)       WAS A FRAME IN PAGEIO        @DA02713 64680031
00961E 4770 F32C      09612       12485+         BNZ   PFRFND1            YES,USE IT                   @DA02713 64710031
009622 D501 08C6 E3D6 008C6 086BC 12486+         CLC   LOWFXPTR,F0        PAGES FIXED BY FAST-TRANS    @D32XDRP 64712032
009628 4780 F35A      09640       12487+         BZ    TONFBTS1           NO, BRANCH                   @D32XDRP 64714032
00962C 9089 F08E            09374 12488+         STM   R8,R9,RESA1        SAVE REGISTERS               @D32XDRP 64716032
009630 5890 077C            0077C 12489+         L     R9,ACCWT           LOAD 1ST BASE REG FOR CCWTR  @D32XDRP 64718032
009634 4589 0F48            00F48 12490+         BAL   R8,DEFIXALL-CCWTADR(R9)  FREE PAGES             @D32XDRP 64720032
009638 9889 F08E            09374 12491+         LM    R8,R9,RESA1        RESTORE REGISTER             @D32XDRP 64722032
00963C 47F0 F29A      09580       12492+         B     LOOKFPF            TRY IT ONCE MORE             @D32XDRP 64724032
009640 4850 067E            0067E 12493+TONFBTS1 LH    R5,PIK             SET CORRECT                  @D32XDRP 64726032
009644 8850 0004            00004 12494+         SRL   R5,L4              BIT IN DEFIXSW               @D32XDRP 64728032
009648 4355 E48E            08774 12495+         IC    R5,BITTAB(R5)      TO INDICATE DEFIX-ING REQU   @D32XDRP 64730032
00964C 4450 E6F0            089D6 12496+         EX    R5,SETDEFIX        FOR FAST-TRANS               @D32XDRP 64732032
009650 1857                 12497+               LR    R5,R7              GET 1ST PFT-ENTRY OF PART.   @DA02713 64740031
009652 9601 5001      00001       12498+SNFIND   OI    D1(R5),NF          INDICATE ALL PAGE FRAMES OF REAL      64770031
009656 4155 0008            00008 12499+         LA    R5,D8(R5)          PARTITION NOT TEMPORARY FIXABLE       64800031
00965A 1958                 12500+               CR    R5,R8                                                    64830031
00965C 4770 F36C      09652       12501+         BNE   SNFIND                                                   64860031
009660 9687 A000      00000       12502+         OI    PIBFLG,BOUND       SET TASK TO WAIT STATE                64890031
009664 45C0 E282            08568 12503+         BAL   RC,RWAIT           ATTACH SYSTEM SAVE AREA               64920031

                                  12505+* CONTROL IS TRANSFERRED TO THIS POINT WHEN THE TASK IS DISPATCHED NEXT 64980031
009668 B1B2 0000            00000 12506+LOADRA2  LRA   RB,D0(R2)           IF PAGE IN CORE                       65070031
00966C 4780 F39A      09680       12507+         BZ    GETPFTE            BRANCH                                65100031
009670 41C0 F3B6            0969C 12508+         LA    RC,NEXTPAGE        LOAD RETURN REGISTER                  65130031
009674 5020 0090            00090 12509+         ST    R2,TRADDR          ELSE STORE PAGE ADDR                  65160031
009678 9204 0090      00090       12510+         MVI   TRADDR,PFIXID      INDICATE PFIX REQUEST                 65190031
00967C 47F0 E660      08946       12511+         B     LENQADR            AND GO TO ENQUEUE REQUEST             65220031

009680 88B0 000B            0000B 12513+GETPFTE  SRL   RB,11                                                   65280031
009684 89B0 0003            00003 12514+         SLL   RB,3               GET PAGE FRAME TABLE ENTRY ADDR       65310031
009688 5AB0 07CC            007CC 12515+         A     RB,APFT                                                  65340031
00968C 45C0 F47E            09764 12516+         BAL   RC,PFIXPAGE        GO TO PFIX PAGE                       65370031
009690 47F0 F3B6      0969C       12517+         B     NEXTPAGE           GO TO PFIX NEXT PAGE                  65400031

                                  12519+* IF PAGE COULD NOT PFIXED BECAUSE IT IS TFIXED IN ANOTHER REAL         65460031
                                  12520+* PARTITION CONTROL IS RETURNED TO THIS POINT                          65490031
009694 9687 A000      00000       12521+         OI    PIBFLG,BOUND       SET TASK TO WAIT STATE                65520031
009698 45C0 E282            08568 12522+         BAL   RC,RWAIT           ATTACH SYSTEM SAVE AREA               65550031

                                  12524+* CONTROL IS TRANSFERRED TO THIS POINT WHEN THE TASK IS DISPATCHED NEXT 65610031
00969C 1200                 12525+NEXTPAGE LTR   R0,R0                    IF REQUEST FROM RESTART               65640031
00969E 4780 F184      0946A       12526+         BZ    NXTENTR            BRANCH                                65670031
0096A2 4590 F266            0954C 12527+         BAL   R9,GETNPADR        DETERMINE NEXT PAGE TO BE PFIXED      65700031
0096A6 47F0 F432      09718       12528+RETADDR  B     RC0                END OF LIST                           65730031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0096AA 4860 067E            0067E 12529+         LH    R6,PIK                                                    65760031
0096AE 8860 0002            00002 12530+         SRL   R6,2                GET FIXWTAB ENTRY OF THE            65790031
0096B2 5A60 E486            0876C 12531+         A     R6,AFIXWTAB         PARTITION OF THE RQUESTOR           65820031
0096B6 D202 6001 E3D6 00001 086BC 12532+         MVC   D1(L3,L6),F0        RESET ADDR OF RESERVED PAGE FRAME   65850031
0096BC D200 6000 0753 00000 00753 12533+         MVC   D0(L1,R6),TIK+D1    INSERT TIK INTO FIXWTAB-ENTRY       65880031
0096C2 4590 F582            09868 12534+         BAL   R9,RESPF1           TEST IF STARTED PFIX TO BE RESET    65940031
                            096C6 12535+VALPADR  EQU   *                                                       66000031
0096C6 4850 067E            0067E 12536+         LH    R5,PIK              VALIDATE RETURNED ADDR              66030031
0096CA 5A50 07D4            007D4 12537+         A     R5,ABBOX                                                  66060031
0096CE 5920 5008            00008 12538+         C     R2,VIRTORP                                                66090031
0096D2 4740 F43C      09722       12539+         BL    INVADR                                                    66120031
0096D6 5920 500C            0000C 12540+         C     R2,VIRTENDP                                               66150031
0096DA 47B0 F43C      09722       12541+         BNL   INVADR                                                    66180031
0096DE 1244                       12542+         LTR   R4,R4               IF LENGTH PARAMETER NEGATIVE        66210031
0096E0 4740 F43C      09722       12543+         BL    INVADR              BRANCH                              66240031
0096E4 B1B2 0000            00000 12544+LOADRA1  LRA   RB,0(R2)            IF PAGE NOT IN CORE                 66270031
0096E8 4770 F29A      09580       12545+         BNZ   LOOKFPF             BRANCH                              66300031
0096EC 88B0 000B            0000B 12546+         SRL   RB,11                                                     66330031
0096F0 89B0 0003            00003 12547+         SLL   RB,3                ELSE                                66360031
0096F4 5AB0 07CC            007CC 12548+         A     RB,APFT             GET CORRESPONDING PFTE-ADDR         66390031
0096F8 19B7                       12549+         CR    RB,R7                                                     66420031
0096FA 4740 F29A      09580       12550+         BL    LOOKFPF                                                   66450031
0096FE 19B8                       12551+         CR    RB,R8               IF PAGE IN REAL PARTITION OF        66480031
009700 47B0 F29A      09580       12552+         BNL   LOOKFPF             REQUESTOR                           66510031
009704 4590 FAF4            09DDA 12553+         BAL   R9,DPFIX            PFIX PAGE IMMEDIATELY               66540031
009708 47F0 F3B6      0969C       12554+         B     NEXTPAGE                                                  66570031
00970C 5860 086C            0086C 12555+         L     R6,DISPAD                                   @DM05356      66600033
009710 58B0 0844            00844 12556+         L     RB,HEX1000          PFIXC = 255             @D34RDFG      66630034
009714 47F0 0A06      00A06       12557+         B     ERR2F               CANCEL CODE X'2F'                     66660031

                            09718 12559+RC0      EQU   *                                                       66720031
009718 4590 F582            09868 12560+         BAL   R9,RESPF1           TEST IF STARTED PFIX TO BE RESET    66780031
00971C 1B33                       12561+         SR    R3,R3               SET RC 0                @DM00656      66840031
00971E 47F0 F44C      09732       12562+         B     PFIXEXIT                                                  66870031

009722 4530 F0AE            09394 12564+INVADR   BAL   R3,PFRLIST          PFREE ALREADY PFIXED PAGES OF       66930031
                                  12565+*                                  THIS PFIX-REQUEST                   66960031
009726 4130 0004            00004 12566+RC12     LA    R3,D4                                       @DM00656      66990031
00972A 4133 0004            00004 12567+RC8      LA    R3,D4(R3)                                                 67020031
00972E 4133 0004            00004 12568+RC4      LA    R3,D4(R3)                                                 67050031
                            09732 12569+PFIXEXIT EQU   *                                           @DM00656      67080031
009732 4860 067E            0067E 12570+         LH    R6,PIK                                                    67110031
009736 8860 0002            00002 12571+         SRL   R6,2                GET FIXWTAB ENTRY OF THE            67140031
00973A 5A60 E486            0876C 12572+         A     R6,AFIXWTAB         PARTITION OF THE RQUESTOR           67170031
00973E 9200 6000      00000       12573+         MVI   D0(R6),X'00'        RESET TASKS ID IN FIXWTAB ENTRY     67200031
009742 18F3                       12574+PFREXIT  LR    RF,R3               LOAD RETURN CODE        @DM00656      67230031
009744 58B0 0844            00844 12575+         L     RB,HEX1000          LOAD BASE LOW CORE BASE @D34RDFG      67260034
009748 5860 086C            0086C 12576+         L     R6,DISPAD                                   @DM05356      67290033
00974C 4110 0028            00028 12577+         LA    R1,SVER0F-SVEARA    GET DISPL. IN SAVE AREA @DM00656      67320031
009750 47F0 B140      01140       12578+         B     RETCODE             BRANCH TO INSERT RC     @DM00656      67350031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

009754 4590 F518            097FE 12580+PFIXPGE  BAL   R9,GPFTEBDS        GET PFTE-ADDRESSES OF REAL            67410031
                                  12581+*                                  PARTITION BOUNDARIES                  67440031
009758 4860 067E            0067E 12582+         LH    R6,PIK                                                   67470031
00975C 8860 0002            00002 12583+         SRL   R6,2                GET FIXWTAB ENTRY OF THE              67500031
009760 5A60 E486            0876C 12584+         A     R6,AFIXWTAB         PARTITION OF THE RQUESTOR             67530031
009764 9101 6003      00003       12585+PFIXPAGE TM    D3(R6),X'01'        IF PFIX-REQUEST FROM RESTART          67560031
009768 4710 F4A2      09788       12586+         BO    RSTRTPF             BRANCH                                67590031
00976C BF37 6001            00001 12587+         ICM   R3,M7,D1(R6)        GET PFTE-ADDR OF RESERVED PAGE        67620031
                                  12588+*                                  FRAME FROM FIXWTAB-ENTRY              67650031
009770 19B7                       12589+         CR    RB,R7                                                    67680031
009772 4740 F4B0      09796       12590+         BL    TSTTFC                                                   67710031
009776 19B8                       12591+         CR    RB,R8               IF PAGE IN REAL PARTITION OF          67740031
009778 47B0 F4B0      09796       12592+         BNL   TSTTFC              REQUESTOR                             67770031
00977C 94FE 3001      00001       12593+         NI    D1(R3),XFF-NF       RESET NF BIT                @DA02713  67800031
009780 4590 FAF4            09DDA 12594+PFIXIMD  BAL   R9,DPFIX            PFIX PAGE                             67830031
009784 47FC 0000      00000       12595+         B     D0(RC)                                          @DA04922  67860032
009788 94FE 6003      00003       12596+RSTRTPF  NI    D3(R6),X'FE'        RESET INDICATOR                       68010031
00978C BF37 6001            00001 12597+         ICM   R3,M7,D1(R6)        GET PFTE-ADDR OF RESERVED PAGE        68040031
                                  12598+*                                  FRAME FROM FIXWTAB-ENTRY              68070031
009790 19B3                       12599+         CR    RB,R3               IF SAME PFTE-ADDRESSES                68100031
009792 4780 F49A      09780       12600+         BE    PFIXIMD             BRANCH                                68130031
009796 91E0 B001      00001       12601+TSTTFC   TM    1(RB),X'E0'                                               68160031
00979A 4770 F4C0            097A6 12602+         BNZ   SETNFFB             IF PAGE                               68190031
00979E 91FF B000      00000       12603+         TM    0(RB),XFF           NOT ALREADY TEMPORARY FIXED           68220031
0097A2 4780 F50E      097F4       12604+         BZ    EXCHPGES            BRANCH                                68250031
                            097A6 12605+SETNFFB  EQU   *                                             @D32XDRP  68260032
0097A6 D501 08C6 E3D6 008C6 086BC 12606+         CLC   LOWFXPTR,F0         PAGES FIXED BY FAST-TRANSL.  @D32XDRP  68280032
0097AC 4780 F4DE      097C4       12607+         BZ    SETNFFB1            NO, BRANCH                    @D32XDRP  68282032
0097B0 9089 F08E            09374 12608+         STM   R8,R9,RESA1         SAVE REGISTERS                @D32XDRP  68284032
0097B4 5890 077C            0077C 12609+         L     R9,ACCWT            LOAD 1ST BASE FOR CCWT        @D32XDRP  68286032
0097B8 4589 0F48            00F48 12610+         BAL   R8,DEFIXALL-CCWTADR(R9)  FREE PAGES               @D32XDRP  68288032
0097BC 9889 F08E            09374 12611+         LM    R8,R9,RESA1         RESTORE REGISTERS             @D32XDRP  68290032
0097C0 47F0 F4B0      09796       12612+         B     TSTTFC              TRY IT ONCE MORE              @D32XDRP  68292032
0097C4 4890 067E            0067E 12613+SETNFFB1 LH    R9,PIK              SET CORRECT                   @D32XDRP  68296032
0097C8 8890 0004            00004 12614+         SRL   R9,L4               BIT IN DEFIXSW                @D32XDRP  68298032
0097CC 4399 E48E            08774 12615+         IC    R9,BITTAB(R9)       TO INDICATE DEFIX-ING         @D32XDRP  68300032
0097D0 4490 E6F0            089D6 12616+         EX    R9,SETDEFIX         REQUIRED FOR FAST-TRANSL.     @D32XDRP  68302032
0097D4 9608 B001      00001       12617+         OI    D1(RB),NFF          INDICATE PAGE NOT TEMP. FIX.  @D32XDRP  68306032
0097D8 5BB0 07CC            007CC 12618+         S     RB,APFT             FIXABLE                               68310031
0097DC 88B0 0002            00002 12619+         SRL   RB,D2                                                   68340031
0097E0 5AB0 E3D2            086B8 12620+         A     RB,APT                                                  68370031
0097E4 F110 E45A 067F 08740 0067F 12621+         MVO   WIDSVE(L2),PIK+D1(L1)                                   68400031
0097EA D100 B000 E45A 00000 08740 12622+         MVN   D0(L1,RB),WIDSVE    MOVE WID INTO PTE                   68430031
0097F0 47FC 0004      00004       12623+         B     D4(RC)                                                  68460031

0097F4 4590 FB42            09E28 12625+EXCHPGES BAL   R9,EXCHANGE         EXCHANGE PAGES AND PFIX PAGE          68520031
                                  12626+*                                  IN RESERVED PAGE FRAME                68550031
0097F8 47FC 0004      00004       12627+         B     D4(RC)              EXCHANGE AND PFIX DELAYED             68580031
0097FC 07FC                       12628+         BR    RC                  RETURN                                68610031

                                  12630+* GET PFTE ADDRESSES OF REAL PARTITION BOUNDARIES                     68670031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0097FE 4850 067E            0067E 12631+GPFTEBDS LH    R5,PIK            GET PARTITION KEY                      68700031
009802 5A50 07D4            007D4 12632+GPFTBNDS A     R5,ABBOX          GET BBOX ENTRY OF PART                 68730031
009806 5870 5000            00000 12633+         L     R7,REALORP        GET START ADDRESS OF REAL PART         68760031
00980A 8870 0008            00008 12634+         SRL   R7,D8             GET CORRESPONDING PFTE ADDRESS         68790031
00980E 5A70 07CC            007CC 12635+         A     R7,APFT                                                  68820031
009812 5880 5004            00004 12636+         L     R8,REALNDP        GET END OF REAL PARTITION              68850031
009816 8880 0008            00008 12637+         SRL   R8,D8             GET CORRESPONDING PFTE ADDRESS         69000031
00981A 5A80 07CC            007CC 12638+         A     R8,APFT                                                  69030031
00981E 07F9                       12639+         BR    R9                RETURN                                 69060031
                                  12640+         DROP  R5                                                       69090031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   12642+*                                                                    69180031
                                   12643+* THIS ROUTINE RESETS STARTED PFIX-REQUESTS IF THE CORRESPONDING      69210031
                                   12644+* PARTITION IS DEACTIVATED BY THE LOAD LEVELER                        69240031
                                   12645+*                                                                    69270031
009820 905C E396           0867C 12646+RESPFIX  STM   R5,RC,PFSA         SAVE REGISTERS USED BY THIS           69300031
                                   12647+*                              ROUTINE                               69330031
009824 5880 A008           00008 12648+         L     R8,PIBSAV2         LOAD ADDR OF SYSTEM SAVE AREA         69360031
009828 4190 F598           0987E 12649+         LA    R9,RESPF2                                  @DM01764   69390031
00982C BE97 800D           0000D 12650+         STCM  R9,M7,SVEPSW+D5    UPDATE ADDR IN SAVED OLD PSW @DM01764 69420031
009830 989C 8010           00010 12651+         LM    R9,RC,SVER09       LOAD REGISTER R5-RC OF THE            69450031
009834 9858 8040           00040 12652+         LM    R5,R8,SVER05       PFIX-ROUTINE                          69480031


009838 5836 0000           00000 12654+         L     R3,D0(R6)                                                69540031
00983C 4133 0000           00000 12655+         LA    R3,D0(R3)          GET ADDR OF RESRVED PFTE              69570031
009840 1233                      12656+         LTR   R3,R3              IF ADDR NOT ZERO                      69600031
009842 4770 F56A      09850      12657+         BNZ   TSTWCN             BRANCH                                69630031
009846 1BBB                      12658+         SR    RB,RB              ELSE                                  69660031
009848 4590 E906           08BEC 12659+         BAL   R9,RESNFBTS        RESET ALL NF-BITS OF REAL PART        69690031
00984C 47F0 F57C      09862      12660+         B     LDUREGS                                                  69720031

009850 4190 F3B6           0969C 12662+TSTWCN   LA    R9,NEXTPAGE                                              69780031
009854 199C                      12663+         CR    R9,RC              IF REQUEST ENQUEUED                   69810031
009856 4780 F578      0985E      12664+         BE    RNFBIT             BRANCH                                69840031
00985A 94F7 B001      00001      12665+         NI    D1(RB),XFF-NFF     RESET NFF-BIT                         69870031
00985E 94FE 3001      00001      12666+RNFBIT   NI    D1(R3),XFF-NF      RESET NF-BIT                          69900031
009862 985C E396           0867C 12667+LDUREGS  LM    R5,RC,PFSA         RELOAD REGISTERS                      69930031
009866 07F8                      12668+         BR    R8                 RETURN                                69960031




009868 4850 067E           0067E 12670+RESPF1   LH    R5,PIK             GET PIK OF PARTITION                  70020031
00986C 8850 0003           00003 12671+         SRL   R5,3               GET PIK/8                             70050031
009870 4155 0057           00057 12672+         LA    R5,LLBNDBG-D2(R5)  GET BND CONDITION FOR THIS TASK       70080031
009874 4155 08E6           008E6 12673+         LA    R5,RETAB(R5)       GET ADDR OF TRT-BYTE                  70110031
009878 9583 5000      00000      12674+         CLI   D0(R5),READY       PART TO BE DECTIVATED                 70140031
00987C 0789                      12675+         BCR   E,R9               NO, RETURN                            70170031
00987E 4530 F0AE           09394 12676+RESPF2   BAL   R3,PFRLIST         PFREE ALREADY PFIXED PAGES            70200031
009882 5860 086C           0086C 12677+         L     R6,DISPAD                                  @DM05356   70230033
009886 1876                      12678+         LR    R7,R6                                                    70260031
009888 58B0 0844           00844 12679+         L     RB,HEX1000         LOAD LOW CORE BASE          @D34RDFG  70290034
00988C 47F0 B00A      0100A      12680+         B     PFWAIT             SET PFIX REQUEST TO RESVC             70350031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


009890 9201 FA1A      09D00       12683+REACT7UC MVI   REACTSW,1                                          @DF00881 70560031
009894 47F0 F5B6      0989C       12684+         B     REACT7                                             @DF00881 70590031

009898 9200 FA1A      09D00       12686+REACT7C  MVI   REACTSW,0                                          @DF00881 70650031
00989C 4700 F5CC            098B2 12687+REACT7   BC    0,REACT1           FIRST TIME SWITCH               @DF00881 70680031
0098A0 B205 D44E      0A734       12688+         STCK  TIME1              READ START-TIME OF FIRST                  70710031
0098A4 0731                       12689+         BCR   3,R1               TOD INVALID                     @DF01345 70740031
0098A6 D703 D462 D462 0A748 0A748 12690+         XC    PIRCTR(4),PIRCTR   SET PIRCTR=0                            70860031
0098AC 92F0 F5B7      0989D       12691+         MVI   REACT7+1,X'F0'     REACTIVATION-MEASUREM.INTERVAL           70980031
0098B0 07F1                       12692+         BR    R1                 SKIP REACT. MEASUREMENT         @DM01714 71010031
                            098B2 12693+REACT1   EQU   *                                                       71040031
0098B2 9029 D472            0A758 12694+         STM   R2,R9,SAVELL                                          71070031
0098B6 B205 D452      0A738       12695+         STCK  TIME2              READ TOD-CLOCK                           71100031
0098BA 47C0 F5E2            098C8 12696+         BC    12,REACT1V         TOD VALID                       @DF01345 71130031
0098BE 9500 0984      00984       12697+         CLI   NDEACTP,0          NO                              @DF01345 71160031
0098C2 0781                       12698+         BCR   8,R1                                               @DF01345 71190031
0098C4 47F0 D918      0ABFE       12699+         B     REACTPUC                                           @DF01345 71220031
                            098C8 12700+REACT1V  EQU   *                                                 @DF01345 71250031
0098C8 9845 D44E            0A734 12701+         LM    R4,R5,TIME1                                                71280031
0098CC 1B54                       12702+         SR    R5,R4                                                      71310031
0098CE 5550 D4D6            0A7BC 12703+         CL    R5,MINTIME         TIME-INTERVAL GE MINIMUM ?              71340031
0098D2 47B0 F5F4      098DA       12704+         BNL   REACT2             YES                                     71370031
0098D6 47F0 F652      09938       12705+         B     REACT9             SKIP COND. REACTIVATION         @DM01714 71400031

0098DA D203 D44E D452 0A734 0A738 12707+REACT2   MVC   TIME1(4),TIME2     SET START-TIME FOR NEXT INTERV.          71460031
0098E0 5820 D462            0A748 12708+         L     R2,PIRCTR                                                  71910031
0098E4 8E20 0020            00020 12709+         SRDA  R2,32              CALCULATE:                              72030031
0098E8 1D25                       12710+         DR    R2,R5              PIRCTR/(TIME2-TIME1)                    72060031
0098EA 4700 F610            098F6 12711+REACT4   BC    0,REACT3           FIRST TIME SWITCH                       72090031
0098EE 5030 D46A            0A750 12712+         ST    R3,EXPAVE          SET INITIAL VALUE FOR                   72120031
0098F2 92F0 F605      098EB       12713+         MVI   REACT4+1,X'F0'     EXPONENTIAL AVERAGE                     72150031
0098F6 5A30 D46A            0A750 12714+REACT3   A     R3,EXPAVE          CALCULATE EXP.AVERAGE                   72180031
0098FA 8830 0001            00001 12715+         SRL   R3,1                                                     72210031
0098FE 5030 D46A            0A750 12716+         ST    R3,EXPAVE                                                72240031
009902 D703 D462 D462 0A748 0A748 12717+         XC    PIRCTR(4),PIRCTR   SET PIRCTR=0                            72360031
009908 9501 FA1A      09D00       12718+         CLI   REACTSW,1          UNCONDITIONAL REACTIVATION?     @DF00881 72510031
00990C 4780 F658      0993E       12719+         BE    REACT11            YES                             @DF00881 72540031
009910 91F0 E9E1      08CC7       12720+         TM    PMRGTE,CLPSE       PMGR TASK CURRENTLY ACTIVE ?    @DM02683 72720031
009914 4710 F652      09938       12721+         BO    REACT8             YES, SKIP ACTIVATION            @DF00881 72750031
009918 5530 D4D2            0A7B8 12722+         CL    R3,CCONST          LOW PAGING-RATE ?                        72780031
00991C 4720 F652      09938       12723+         BH    REACT5             NO                                       72810031
009920 9500 0984      00984       12724+         CLI   NDEACTP,0          ARE THERE DEACTIVATED PART. ?            72990031
009924 4780 F652      09938       12725+         BE    REACT6             NO                                       73020031
009928 4590 D3D2            0A6B8 12726+         BAL   R9,CSPE            COUNT SELECT.-POOL ELEMENTS     @DM12771 73030032
00992C 4800 D470            0A756 12727+         LH    R0,NSPE            R0=# OF SELECT.-POOL ELEMENTS            73050031
009930 9829 D472            0A758 12728+         LM    R2,R9,SAVELL                                               73080031
009934 47F0 D920      0AC06       12729+         B     REACTPC            RETURN,EXIT 2: TRY REACTIV.     @DF00881 73110031
                            09938 12730+REACT6   EQU   *                                                       73140031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            09938 12731+REACT8   EQU   *                                                  @DF00881 73380031
                            09938 12732+REACT5   EQU   *                                                           73590031
009938 9829 D472            0A758 12733+REACT9   LM    R2,R9,SAVELL                                         @DF00881 73710031
00993C 07F1                       12734+         BR    R1                RETURN                             @DF00881 73740031
                            0993E 12735+REACT11  EQU   *                                                  @DF02306 73770031
00993E 9829 D472            0A758 12736+         LM    R2,R9,SAVELL                                         @DF00881 73800031
009942 47F0 D918      0ABFE       12737+         B     REACTPUC          UNCONDITIONAL REACT                @DF00881 73830031
                            09946 12738+RETREACT EQU   *                                                  @D34RDFG 73860034
009946 07F9                       12739+         BR    R9                                                   @DF00881 73890031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  12741+*                                                                    73980031
                                  12742+*             PMGR-TASK                                              74010031
                                  12743+*                                                                    74040031
                                  12744+*       FUNCTION :              THIS TASK HANDLES TE ENTRIES         74070031
                                  12745+*                               IN THE PAGE-I/0-REQUEST QUEUE        74100031
                                  12746+*                               (PGQU) IN A FIFO ORDER               74130031
                                  12747+*                                                                    74160031
                                  12748+*       THE TASK IS ACTIVATED BY THE ENQUEUE ROUTINE (ENQU)          74190031
                                  12749+*                                                                    74220031

009948 9200 FA1B      09D01       12751+PMR     MVI   IOSW,0                                                 74280031
00994C 5810 E352            08638 12752+        L     R1,PGQU           R1=FIRST PGQU-ENTRY                  74310031
009950 5410 F9FA            09CE0 12753+        N     R1,MASK           R1=ADDRESS-PART                      74340031
009954 5010 F9E2            09CC8 12754+        ST    R1,PGAD                                                74370031
009958 5010 F9E6            09CCC 12755+        ST    R1,PFAD                                                74400031
00995C 1821                       12756+        LR    R2,R1                                                  74430031
00995E 8820 000B            0000B 12757+        SRL   R2,11                                                  74460031
009962 4020 FA10            09CF6 12758+        STH   R2,LACPTE         LACPTE=PAGE#                         74490031
009966 8920 0001            00001 12759+        SLL   R2,1                                                   74520031
00996A 5A20 E3D2            086B8 12760+        A     R2,APT                                  @DM12778       74550032
00996E 5020 F9EA            09CD0 12761+        ST    R2,NPTEAD         NPTEAD=@ OF 'NEW' PTE                74580031
009972 9101 E352      08638       12762+        TM    PGQU,GREALID      GETREAL-REQUEST                      74610031
009976 4710 F6EC      099D2       12763+        BO    PMR1              YES                                  74640031
00997A 9104 2001      00001       12764+        TM    1(R2),X'04'       PAGE IN CORE ?                       74670031
00997E 4780 F822      09B08       12765+        BZ    PMRA              YES                                  74700031
009982 4590 D236            0A51C 12766+        BAL   R9,TRTABB         TEST RTAB-BIT                        74760031
009986 45C0 FE20            0A106 12767+        BAL   R12,BQCL          SELECT A PAGE-FRAME                  74820031
00998A 5010 F9E6            09CCC 12768+        ST    R1,PFAD                                                74850031
00998E 9101 2001      00001       12769+        TM    1(R2),X'01'       PAGE-IN NECESSARY (U=0)              74880031
009992 4710 F6EC      099D2       12770+        BO    PMR1              NO                                   74910031
009996 9201 FA1B      09D01       12771+        MVI   IOSW,1            INDICATE: PAGE-IN                    74940031
00999A 9104 073B      0073B       12772+        TM    SYSFLAG4,KLLRSTBT KILL RESET REQUESTED       @D31AUHL  75030031
00999E 4780 F6D8      099BE       12773+        BZ    PMR01             NO                         @D31AUHL  75060031
0099A2 94F9 073B      0073B       12774+        NI    SYSFLAG4,XFF-KLLRSTBT-KLLEDBIT               @DY11955  75090034
0099A6 5830 D4E6            0A7CC 12775+        L     R3,SACONST        RESTORE                    @D31AUHL  75120031
0099AA 5030 D4CE            0A7B4 12776+        ST    R3,ACONST         LLEV                       @D31AUHL  75150031
0099AE 9834 D4EA            0A7D0 12777+        LM    R3,R4,SBCONST     CONSTANTS                  @D31AUHL  75180031
0099B2 9034 D4DA            0A7C0 12778+        STM   R3,R4,BCONST      *                          @D31AUHL  75210031
0099B6 5830 D4F2            0A7D8 12779+        L     R3,SDCONST                                   @DA08738  75212433
0099BA 5030 D4E2            0A7C8 12780+        ST    R3,DCONST                                    @DA08738  75214033

0099BE 9102 073B      0073B       12782+PMR01   TM    SYSFLAG4,KLLEDBIT BATCH DEACTIVATED          @D31AUHL  75270031
0099C2 4710 F6E4      099CA       12783+        BO    PMR02             YES,BYPASS LLEV            @D31AUHL  75300031
0099C6 4590 D264            0A54A 12784+        BAL   R9,CPGIN          COUNT PAGE-INS FOR                   75360031
                                  12785+*                               DEACTIVATION/REACTIVATION            75390031
                                  099CA 12786+PMR02   EQU   *                                      @D31AUHL  75420031
0099CA 4800 FA10            09CF6 12787+        LH    R0,LACPTE                                              75630031
0099CE 4B00 FA12            09CF8 12788+        SH    R0,NCPTE          REL.PAGE# FOR PAGE-IN                75660031
0099D2 1831                       12789+PMR1    LR    R3,R1                                                  75690031
0099D4 8830 0008            00008 12790+        SRL   R3,8                                                   75720031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0099D8 4030 FA0A            09CF0 12791+         STH   R3,CPTEOF          CPTEOF=PFT-OFFSET                        75750031
0099DC 5860 07CC            007CC 12792+         L     R6,APFT                                                     75780031
0099E0 4173 6000            00000 12793+         LA    R7,0(R3,R6)                                                 75810031
0099E4 5070 F9EE            09CD4 12794+         ST    R7,CPTEAD          CPTEAD=@ OF PFT-ENTRY                    75840031
0099E8 D501 7004 FA18 00004 09CFE 12795+         CLC   4(2,R7),PNRM1      PAGE-FRAME UNUSED                        75870031
0099EE 4780 F758      09A3E       12796+         BE    PMR2               YES                                      75900031
0099F2 4847 0004            00004 12797+         LH    R4,4(R7)                                                    75930031
0099F6 4590 D214            0A4FA 12798+         BAL   R9,SRTABB          SET RTAB-BIT ON                          75990031
0099FA 8940 0001            00001 12799+         SLL   R4,1                                                        76050031
0099FE 5A40 E3D2            086B8 12800+         A     R4,APT             R4=@ OF 'OLD' PTE              @DM12778  76080032
009A02 B213 1000      00000       12801+         RRB   0(R1)              PAGE-OUT NECESSARY                       76110031
009A06 47A0 F73E            09A24 12802+         BC    10,PMR3            NO                                       76140031
009A0A D603 E79E E79E 08A84 08A84 12803+         OC    CTFIXADR,CTFIXADR  CTFIX REQUEST?                 @DL29ZCJ 76170031
009A10 4770 EA76      08D5C       12804+         BNZ   DEQUZ              YES, REJECT IT                 @DL29ZCJ 76200031
009A14 9602 FA1B      09D01       12805+         OI    IOSW,2             INDICATE: PAGE-OUT                       76230031
009A18 94FE 4001      00001       12806+         NI    1(R4),X'FE'        SET U=0                                  76410031
009A1C 4827 0004            00004 12807+         LH    R2,4(R7)                                                    76440031
009A20 4B20 FA12            09CF8 12808+         SH    R2,NCPTE           REL.PAGE# FOR PAGE-OUT                   76470031
009A24 9604 4001      00001       12809+PMR3     OI    1(R4),X'04'        INVALIDATE 'OLD' PTE                     76500031
009A28 B20D 0000                  12810+         PTLB                                                              76530031
009A2C 0991                       12811+         ISK   R9,R1              INSERT STORAGE-KEY                       76560031
009A2E 4290 FA1D            09D03 12812+         STC   R9,STK             INTO PT-ENTRY                            76590031
009A32 D401 4000 FA16 00000 09CFC 12813+         NC    0(2,R4),MASK2                                               76620031
009A38 D300 4001 FA1D 00001 09D03 12814+         MVZ   1(1,R4),STK                                                 76650031
009A3E 4590 F888            09B6E 12815+PMR2     BAL   R9,REMOVE          REMOVE PAGE-FR.FROM SELECT.-P.           76680031
009A42 9602 7001      00001       12816+         OI    1(R7),SP           SET SP=1                                 76710031
009A46 9500 FA1B      09D01       12817+         CLI   IOSW,0             PAGE-I/O NECESSARY                       76740031
009A4A 4780 F780      09A66       12818+         BE    PMR4               NO                                       76770031
009A4E 9201 D4CA      0A7B0       12819+         MVI   IOIND,1            SET  I/O-IND. FOR RT. CSPE               76830031
009A52 45C0 FEDA            0A1C0 12820+         BAL   R12,PAGEIO         PAGE-I/O                                 76890031
009A56 9200 D4CA      0A7B0       12821+         MVI   IOIND,0            RESET I/O-IND.                           76950031
009A5A 5870 F9EE            09CD4 12822+         L     R7,CPTEAD          R7=@ OF PFT-ENTRY                        77010031
009A5E 9101 FA1B      09D01       12823+         TM    IOSW,X'01'         WAS A PAGE READ                          77040031
009A62 4710 F788      09A6E       12824+         BO    PMR5               YES                                      77070031
009A66 5840 F9E6            09CCC 12825+PMR4     L     R4,PFAD            R4=@PAGE-FRAME                           77100031
009A6A 4590 F8CE            09BB4 12826+         BAL   R9,CLEARPF         CLEAR PAGE-FRAME                         77130031
009A6E 5840 F9E6            09CCC 12827+PMR5     L     R4,PFAD                                                     77160031
009A72 5810 F9EA            09CD0 12828+         L     R1,NPTEAD                                                   77190031
009A76 9101 E352      08638       12829+         TM    PGQU,GREALID       GETREAL ?                     @DF01346 77220031
009A7A 4710 F7A0      09A86       12830+         BO    PMR98              YES                           @DF01346 77250031
009A7E 9180 1000      00000       12831+         TM    0(R1),X'80'        H--BIT ON ?                   @DF01346 77280031
009A82 4710 F862      09B48       12832+         BO    PMR99              YES                           @DF01346 77310031
                            09A86 12833+PMR98    EQU   *                                             @DF01346 77340031
009A86 4321 0001            00001 12834+         IC    R2,1(R1)                                                    77370031
009A8A 5420 F9FE            09CE4 12835+         N     R2,MASK1           INSERT STORAGE-KEY                       77400031
009A8E 0824                       12836+         SSK   R2,R4              SET R=0 AND C=0                          77430031
009A90 8840 0008            00008 12837+         SRL   R4,8               VALIDATE 'NEW' PTE AND                   77460031
009A94 9101 1001      00001       12838+         TM    1(R1),X'01'        INSERT @ OF PAGE-FRAME INTO              77490031
009A98 4780 F7BA      09AA0       12839+         BZ    PMR7               'NEW' PT-ENTRY                           77520031
009A9C 4144 0001            00001 12840+         LA    R4,1(R4)           U=1                                      77550031
009AA0 4041 0000            00000 12841+PMR7     STH   R4,0(R1)                                                    77580031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

009AA4 D201 7004 FA10 00004 09CF6 12842+         MVC   4(2,R7),LACPTE     INSERT PAGE# INTO PFT-ENTRY           77610031
009AAA 9101 E352      08638       12843+         TM    PGQU,GREALID       GETREAL-REQUEST                       77640031
009AAE 4710 F85A      09B40       12844+         BO    PMRB               YES                                   77670031
009AB2 94FD 7001      00001       12845+         NI    1(R7),XFF-SP       SET SP=0                              77700031
009AB6 4830 FA0A            09CF0 12846+         LH    R3,CPTEOF          R3=PFT-OFFSET                         77730031
009ABA 5860 07CC            007CC 12847+         L     R6,APFT                                                  77760031
009ABE 5870 ED3A            09020 12848+         L     R7,HQ              INSERT PAGE AT BOTTOM                 77790031
009AC2 4590 F8B4            09B9A 12849+         BAL   R9,INSBOT          OF HQ                                 77820031
                            09AC6 12850+PMR97    EQU   *                                          @DF01346 77850031
009AC6 9101 E45F      08745       12851+         TM    TIKSVE,EXCHIND     DELAYED EXCHANGING ?                  77910031
009ACA 4780 F822      09B08       12852+         BZ    PMRA               NO                                    77940031
009ACE 9823 FBEA            09ED0 12853+         LM    R2,R3,SAVE2                                              77970031
009AD2 5420 F9FA            09CE0 12854+         N     R2,MASK                                                  78000031
009AD6 B1B2 0000            00000 12855+         LRA   RB,0(R2)                                                 78030031
009ADA 88B0 0008            00008 12856+         SRL   RB,8                                                     78060031
009ADE 40B0 FA0C            09CF2 12857+         STH   RB,CPTEOF1         CPTEOF1=PFT-OFFSET OF 'OLD' PF        78090031
009AE2 5860 07CC            007CC 12858+         L     R6,APFT                                                  78120031
009AE6 1AB6                       12859+         AR    RB,R6                                                    78150031
009AE8 94F7 B001      00001       12860+         NI    1(RB),XFF-NFF      SET NFF=0 FOR 'OLD' PF                78180031
009AEC 5B30 07CC            007CC 12861+         S     R3,APFT                                                  78210031
009AF0 4030 FA0E            09CF4 12862+         STH   R3,CPTEOF2         CPTEOF2=PFT-OFFSET OF 'NEW' PF        78240031
009AF4 8820 000A            0000A 12863+         SRL   R2,10                                                    78270031
009AF8 5A20 E3D2            086B8 12864+         A     R2,APT             R2=@ OF 'OLD' PT-ENTRY      @DM12778  78300032
009AFC 5020 F9F2            09CD8 12865+         ST    R2,OLDPTE                                                78330031
009B00 4590 FC22            09F08 12866+         BAL   R9,EXCH            EXCHANGE PAGE-FRAMES                  78360031
009B04 4590 FAF4            09DDA 12867+         BAL   R9,DPFIX           PFIX PAGE-FRAME                       78390031
009B08 9106 E352      08638       12868+PMRA     TM    PGQU,TFIXID+PFIXID TFIX-OR PFIX-REQUEST ?                78450031
009B0C 4780 EA70      08D56       12869+         BZ    DEQU               NO                                    78480031
009B10 5820 F9E2            09CC8 12870+         L     R2,PGAD            R2=PAGE-ADDR.                         78510031
009B14 B1B2 0000            00000 12871+         LRA   RB,0(R2)                                                 78540031
009B18 88B0 0008            00008 12872+         SRL   RB,8                                                     78570031
009B1C 5AB0 07CC            007CC 12873+         A     RB,APFT            RB=@PFT-ENTRY                         78600031
009B20 9104 E352      08638       12874+         TM    PGQU,PFIXID        PFIX-REQUEST ?                        78660031
009B24 4710 F84E      09B34       12875+         BO    PMRC               YES                                   78690031
009B28 4590 FA1E            09D04 12876+         BAL   R9,DTFIX           TFIX PAGE-FRAME                       78750031
009B2C 47F0 EA70      08D56       12877+         B     DEQU                                                     78780031
009B30 47F0 F8F6      09BDC       12878+         B     DEQUX              TFIX NOT POSSIBLE                     78810031

009B34 45C0 F46E            09754 12880+PMRC     BAL   RC,PFIXPGE         PFIX PAGE-FRAME                       78900031
009B38 47F0 EA70      08D56       12881+         B     DEQU                                                     78930031
009B3C 47F0 EA68      08D4E       12882+         B     DEQUY                                                    78960031

009B40 9680 1000      00000       12884+PMRB     OI    0(R1),X'80'        SET H=1                               79050031
009B44 47F0 EA70      08D56       12885+         B     DEQU                                                     79080031
009B48 1B22                       12886+PMR99    SR    R2,R2                                      @DF01346 79110031
009B4A 0824                       12887+         SSK   R2,R4              STOR.-KEY=0                 @DF01346 79140031
009B4C D201 7004 FA18 00004 09CFE 12888+         MVC   4(2,R7),PNRM1      SET PF  UNUSED              @DF01346 79170031
009B52 94FD 7001      00001       12889+         NI    1(R7),XFF-SP       SET SP=0                    @DF01346 79200031
009B56 4830 FA0A            09CF0 12890+         LH    R3,CPTEOF                                      @DF01346 79230031
009B5A 5860 07CC            007CC 12891+         L     R6,APFT            INSERT TO Q00               @DF01346 79260031
009B5E 5870 ED32            09018 12892+         L     R7,Q00                                         @DF01346 79290031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

009B62 4590 F89A            09B80 12893+         BAL   R9,INSTOP                                      @DF01346 79320031
009B66 94FD E352      08638       12894+         NI    PGQU,XFF-TFIXID                                @DF01346 79350031
009B6A 47F0 F7E0      09AC6       12895+         B     PMR97                                          @DF01346 79380031
                                  12896+* SUPERVISOR - SGPSUB - 5745-SC-SUP - REL. 34.1              @DY14259 00760034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  12898+*                                REMOVE A PAGE FROM A QUEUE             00870031
009B6E 4843 6002                  00002 12899+REMOVE   LH    R4,2(R3,R6)  R3=PFT-OFFSET                       00900031
009B72 4853 6006                  00006 12900+         LH    R5,6(R3,R6)  R6=@ OF PFT                        00930031
009B76 4045 6002                  00002 12901+         STH   R4,2(R5,R6)                                    00960031
009B7A 4054 6006                  00006 12902+         STH   R5,6(R4,R6)                                    00990031
009B7E 07F9                             12903+         BR    R9                                             01020031
                                  12904+*                                INSERT A PAGE AT THE TOP               01050031
                                  12905+*                                OF A QUEUE                             01080031
009B80 4847 0002                  00002 12906+INSTOP   LH    R4,2(R7)     R3=PFT-OFFSET                       01110031
009B84 4854 6006                  00006 12907+         LH    R5,6(R4,R6)  R6=@ OF PFT                        01140031
009B88 4037 0002                  00002 12908+         STH   R3,2(R7)     R7=ADDR.OF HEAD OF QUEUE            01170031
009B8C 4034 6006                  00006 12909+         STH   R3,6(R4,R6)                                    01200031
009B90 4043 6002                  00002 12910+         STH   R4,2(R3,R6)                                    01230031
009B94 4053 6006                  00006 12911+         STH   R5,6(R3,R6)                                    01260031
009B98 07F9                             12912+         BR    R9                                             01290031
                                  12913+*                                INSERT A PAGE AT THE BOTTOM            01320031
                                  12914+*                                OF A QUEUE                             01350031
009B9A 4847 0006                  00006 12915+INSBOT   LH    R4,6(R7)     R3=PFT-OFFSET                       01380031
009B9E 4854 6002                  00002 12916+         LH    R5,2(R4,R6)  R6=@ OF PFT                        01410031
009BA2 4037 0006                  00006 12917+         STH   R3,6(R7)     R7=ADDR.OF HEAD OF QUEUE            01440031
009BA6 4034 6002                  00002 12918+         STH   R3,2(R4,R6)                                    01470031
009BAA 4043 6006                  00006 12919+         STH   R4,6(R3,R6)                                    01500031
009BAE 4053 6002                  00002 12920+         STH   R5,2(R3,R6)                                    01530031
009BB2 07F9                             12921+         BR    R9                                             01560031
                                  12922+*                                                                     01590031

                            09BB4 12924+CLEARPF  EQU   *                 CLEAR PAGE-FRAME           @DA09596 01650033
009BB4 9023 F8EE            09BD4 12925+         STM   R2,R3,CLEARSAV   SAVE REGISTERS             @DA09596 01710033
009BB8 5830 0844            00844 12926+         L     R3,HEX1000       GET LENGTH OF              @DA09596 01770033
009BBC 8830 0001            00001 12927+         SRL   R3,1             OF TARGET (2048)           @DA09596 01776033
009BC0 1824                       12928+         LR    R2,R4            SET TARGET ADDR FOR MVCL   @DA09596 01782033
009BC2 1B55                       12929+         SR    R5,R5            SET PADDING CHARACTER AND  @DA09596 01788033
                                  12930+*                                LEGTH OF SOURCE TO ZERO    @DA09596 01794033
009BC4 ACFB FA1C      09D02       12931+         STNSM PSWB0,X'FB'      SET T-BIT OFF              @DA09596 01800033
009BC8 0E24                       12932+         MVCL  R2,R4            CLEAR PAGE FRAME           @DA09596 01806033
009BCA AD04 FA1C      09D02       12933+         STOSM PSWB0,X'04'      SET T-BIT ON               @DA09596 01812033
009BCE 9823 F8EE            09BD4 12934+         LM    R2,R3,CLEARSAV   RESTORE REGISTERS          @DA09596 01818033
009BD2 07F9                       12935+         BR   R9                                           @DM03548 01830031
009BD4                            12936+CLEARSAV DS    2F               SAVEAREA FOR CLEARPF       @DA09596 01840033
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  12938+*                                                                  01890031
                                  12939+*        THIS ROUTINE IS CALLED BY THE PAGE MANAGER WHEN THE PAGE  01920031
                                  12940+*        MANAGER HAS TO PROCESS A PAGE FAULT OR A TFIX-REQUEST AND 01950031
                                  12941+*        ALL PAGE FRAMES ARE FIXED                                 01980031
                                  12942+*                                                                  02010031
009BDC D603 E79E E79E 08A84 08A84 12943+DEQUX    OC    CTFIXADR,CTFIXADR  UNSUCCESSFUL TFIX           @DL29ZCF 02040031
009BE2 4780 F908      09BEE       12944+         BZ    DEQUX1             BRANCH IF NO CTFIX          @DA06284 02050032
009BE6 9507 E355      0863B       12945+         CLI   PGQU+D3,SUPVR      IS THIS CTFIX               @DA06284 02060032
009BEA 4780 EA76      08D5C       12946+         BE    DEQUZ              YES, DEQUEUE IT             @DA06284 02062032
009BEE 9200 095D      0095D       12947+DEQUX1   MVI   TRTFIX,X'00'       SET PMGR-TASK FIX BOUND     @DA06284 02064032
009BF2 9089 F08E            09374 12948+         STM   R8,R9,RESA1        SAVE REGISTERS              @D32XDRP 02111032
009BF6 5890 077C            0077C 12949+         L     R9,ACCWT           LOAD BASE REGISTERS         @D32XDRP 02112032
009BFA 4589 0F08            00F08 12950+         BAL   R8,DEFIXCOE-CCWTADR(R9)    FREE PAGES HELD BY  @D32XDRP 02114032
                                  12951+*                                 FAST-TRANS.                 @D32XDRP 02115032
009BFE 9889 F08E            09374 12952+         LM    R8,R9,RESA1        RESTOR REGISTERS            @D32XDRP 02116032
009C02 9500 095D      0095D       12953+         CLI   TRTFIX,ZERO        PMR-TASK POSTED             @D32XDRP 02117032
009C06 4770 F962      09C48       12954+         BNE   DEQUXE            YES, BRANCH                 @D32XDRP 02118032
009C0A D501 08F0 E3D6 008F0 086BC 12955+         CLC   CNTCOM(2),F0       IF NR OF COMPLETE GENERAL                 02130031
009C10 4770 F974      09C5A       12956+         BNE   TFCNTZ            TFIX-REQUESTS NOT ZERO, BRANCH            02160031
009C14 4560 F9AA            09C90 12957+         BAL   R6,SRCHQU          SEARCH QUEUE FOR A REQUEST  @DM05052 02190031
                                  12958+*                                 FROM FETCH                            02220031
009C18 47F0 F946      09C2C       12959+         B     RSETCCWT           NO REQUEST FROM FETCH FOUND               02250031
009C1C 926D A000      00000       12960+         MVI   PIBFLG,PFGBND      SET TASK WAITING FOR NEXT                 02310031
009C20 9200 0953      00953       12961+         MVI   TRTPFG,ZERO         FREED PAGE FRAME                          02340031
009C24 9500 095D      0095D       12962+         CLI   TRTFIX,X'00'       IF PMGR-TASK POSTED                       02400031
009C28 4770 F962      09C48       12963+         BNE   DEQUXE            BRANCH                                    02430031
009C2C 5890 077C            0077C 12964+RSETCCWT L     R9,ACCWT           LOAD BASE REGISTER OF CCWT                02460031
009C30 4559 0F9A            00F9A 12965+         BAL   R5,CCWRSVC-CCWTADR(R9) FREE TFIXED PAGES OF STARTED       02490031
                                  12966+*                                 CCW-TRANSLATIONS                      02520031
                            01000 12967+         USING SYSS00+X'1000',RB  LOW CORE BASE               @D34RDFG 02550034
009C34 9500 095D      0095D       12968+         CLI   TRTFIX,X'00'       IF PMGR-TASK POSTED                       02610031
009C38 4770 F962      09C48       12969+         BNE   DEQUXE            BRANCH                                    02640031
009C3C 58B0 0844            00844 12970+         L     RB,HEX1000         RELOAD LOW CORE BASE        @D34RDFG 02670034
009C40 5860 086C            0086C 12971+         L     R6,DISPAD          GET ADDR OF DISPATCHER      @DM05356 02700033
009C44 4580 B438            01438 12972+         BAL   R8,RSTSV44         FREE TFIXED PAGES OF STARTED              02730031
                                  12973+*                                 SVC 44                                    02760031
009C48 4180 E352            08638 12974+DEQUXE   LA    R8,PGQU            GET BEGIN ADDR.OF PGQU                    02820031
009C4C 5870 E48A            08770 12975+         L     R7,AEOPGQU         GET CURRENT END OF PGQU                   02850031
009C50 1978                       12976+         CR    R7,R8              ANY ENTRY IN PGQU ?                       02880031
009C52 47D0 EB0A      08DF0       12977+         BNH   OPENGTE            NO, OPEN GATE OF PMGR-TASK                02910031
009C56 47F0 EB16      08DFC       12978+         B     PMRINIT            YES, HANDLE NEXT PGQU-ENTRY               02940031



009C5A 4560 F9AA            09C90 12980+TFCNTZ   BAL   R6,SRCHQU          SEARCH QUEUE FOR A REQUEST  @DM05052 03000031
                                  12981+*                                 FROM FETCH                            03030031
009C5E 47F0 F984      09C6A       12982+         B     SRETADR            NO REQUEST FROM FETCH FOUND @DM01296 03060031
009C62 9677 A000      00000       12983+         OI    PIBFLG,FIXBND      SET USER TASK WAITING FOR   @DM05052 03090031
009C66 47F0 F962      09C48       12984+         B     DEQUXE             TFREE                                 03120031
009C6A 5870 0790            00790 12985+SRETADR  L     R7,ASYSBLK0                                  @DM01296 03150031
009C6E 4177 0020            00020 12986+         LA    R7,PMRBLOCK-SYSBLK0(R7)                      @DM01296 03180031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00000 12987+         USING SYSBLKS,R7                                          @DM01296 03210031
009C72 5880 7004          00004 12988+         L     R8,SYSAVAR                                          @DM01296 03240031
                              12989+           DROP  R7                                                  @DA01384 03270031
009C76 4150 EB16          08DFC 12990+         LA    R5,PMRINIT          SET RETURN ADDR INTO          @DM01296 03300031
009C7A 5050 800C          0000C 12991+         ST    R5,SVEPSW2          SAVE AREA OF PMGR-TASK        @DM01296 03330031
009C7E 5860 086C          0086C 12992+         L     R6,DISPAD           RELOAD EXIT ADDR              @DM05356 03360033
009C82 58B0 0844          00844 12993+         L     RB,HEX1000          RELOAD LOW CORE BASE          @D34RDFG 03390034
009C86 9277 B5D2  015D2       12994+         MVI   PMRFLG,FIXBND       SET PMGR TASK FIX BOUND       @DM01296 03420031
009C8A 9200 073D  0073D       12995+         MVI   SELECT,M0           AND NON-DISPATCHABLE          @DM01296 03450031
009C8E 07F6                   12996+         BR    R6                  EXIT TO DISPATCHER            @DM01296 03480031


009C90 4140 E352          08638 12998+SRCHQU   LA    R4,PGQU                                             @DM05052 03570031
009C94 5870 E48A          08770 12999+         L     R7,AEOPGQU                                                    03600031
009C98 1974                   13000+SRCHLOOP CR    R7,R4               IF END OF PAGE-I/O-REQUEST    @DM05052 03630031
009C9A 0786                   13001+         BCR   E,R6                QUEUE REACHED, - EXIT 1       @DM05052 03660031
009C9C 9507 4003  00003       13002+         CLI   D3(R4),SUPVR        IF REQUEST FROM FETCH         @DM05052 03780031
009CA0 4780 F9C6  09CAC       13003+         BE    DELFR               BRANCH                                  03810031
009CA4 4144 0004          00004 13004+         LA    R4,D4(R4)           POINT TO NEXT QUEUE-ENTRY     @DM05052 03840031
009CA8 47F0 F9B2  09C98       13005+         B     SRCHLOOP                                                  03870031

009CAC 43A4 0000          00000 13007+DELFR    IC    RA,D0(R4)           GET PIB-ADDR OF USER TASK     @DM05052 03930031
009CB0 54A0 F9FE          09CE4 13008+         N     RA,MASK1            WHICH HAS ISSUED THE FETCH              03960031
009CB4 4AA0 06AA          006AA 13009+         AH    RA,YPIBTAB                                                03990031
009CB8 4580 ED78          0905E 13010+         BAL   R8,RESFCH           FREE TFIXED PAGES OF THE      @DM05052 04020031
                              13011+*                                    FETCH REQUEST                 @DM05052 04050031
009CBC 1884                   13012+         LR    R8,R4                                               @DM05052 04080031
009CBE 4166 0004          00004 13013+         LA    R6,D4(R6)           EXIT TO R6 PLUS FOUR          @DM05052 04110031
009CC2 47F0 EB8A  08E70       13014+         B     DELENTR             DELETE ENTRY FROM QUEUE       @DM05052 04140031
                              13015+*                                    (DELENTR EXITS ON R6)         @DM05052 04170031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

009CC8                           13017+PGAD     DS    F                                                      04230031
009CCC                           13018+PFAD     DS    F                 @ OF PAGE-FRAME                      04260031
009CD0                           13019+NPTEAD   DS    F                 @ OF 'NEW' PTE                       04290031
009CD4                           13020+CPTEAD   DS    F                 @ OF PFT-ENTRY                       04320031
009CD8                           13021+OLDPTE   DS    F                                                      04350031
009CDC                           13022+SAVE9    DS    F                                                      04380031
009CE0 00FFF800                  13023+MASK     DC    X'00FFF800'                                            04410031
009CE4 000000F0                  13024+MASK1    DC    X'000000F0'                                            04440031
009CE8 07FFFFFF                  13025+TFIXCMAX DC    X'07FFFFFF'                                            04470031
009CEC 0000FFE0                  13026+MASKTFXC DC    X'0000FFE0'       TO MASK ALL BUT TFIX COUNT   @DA06526 04500032
009CF0                           13027+CPTEOF   DS    H                 PFT-OFFSET                           04530031
009CF2                           13028+CPTEOF1  DS    H                                                      04560031
009CF4                           13029+CPTEOF2  DS    H                                                      04590031
009CF6                           13030+LACPTE   DS    H                                                      04620031
009CF8 0800                      13031+NCPTE    DC    AL2(2048)         # OF PFT-ENTRIES                     04650031
009CFA 4000                      13032+LCPT     DC    AL2(2048*8)       LENGTH OF PFT                        04680031
009CFC 0007                      13033+MASK2    DC    X'0007'                                                04710031
009CFE FFFF                      13034+PNRM1    DC    H'-1'                                                  04740031
009D00                           13035+REACTSW  DS    C                 SW FOR COND./UNCOND. REACT   @DF00881 04770031
009D01                           13036+IOSW     DS    C                                                      04800031
009D02                           13037+PSWB0    DS    C                                                      04830031
009D03                           13038+STK      DS    C                                                      04860031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13040+*                                                                    05010031
                                 13041+*        FUNCTION :               TFIX PAGE                          05040031
                                 13042+*        PARAMETERS :             R2   PAGE ADDRESS                  05070031
                                 13043+*                                 RB   PAGE FRAME TABLE ENTRY ADDR   05100031
                                 13044+*        DTFIX WILL BE CALLED FROM  TFIX  AND  PMR                   05130031
                                 13045+*                                                                    05160031
                                 13046+*        RETURN VIA LINK REGISTER R9 :                               05190031
                                 13047+*             EXIT 1 (DISPL. 0) - PAGE TFIXED                        05220031
                                 13048+*             EXIT 2 (DISPL. 4) - TFIX NOT POSSIBLE (NO PAGE FRAME   05250031
                                 13049+*                                  AVAILABLE OR NFF-BIT=1)           05280031
                                 13050+*                                                                    05310031



009D04 901C ED46           0902C 13052+DTFIX    STM   R1,R12,SAVFPF                                         05370031
009D08 9102 B001      00001    13053+          TM    1(RB),SP           SP=0 ?                             05400031
009D0C 4780 FA54      09D3A    13054+          BZ    DTFIX1             YES                                05430031
009D10 484B 0000           00000 13055+          LH    R4,0(RB)                                              05460031
009D14 8840 0005           00005 13056+          SRL   R4,5                                                  05490031
009D18 5540 FA02           09CE8 13057+          CL    R4,TFIXCMAX        TFIXC=MAX. VALUE ?                 05520031
009D1C 4780 FA4C      09D32    13058+          BE    DTFIXSTP           YES,STOP                 @DA02646  05550031
009D20 484B 0000           00000 13059+DTFIX5   LH    R4,0(RB)                                              05580031
009D24 4144 0020           00020 13060+          LA    R4,32(R4)          TFIXC=TFIXC+1                      05610031
009D28 404B 0000           00000 13061+          STH   R4,0(RB)                                              05640031
009D2C 981C ED46           0902C 13062+          LM    R1,R12,SAVFPF                                         05670031
009D30 07F9                      13063+          BR    R9                 RETURN,EXIT 1                      05700031

009D32 58B0 0844           00844 13065+DTFIXSTP L     RB,HEX1000         LOAD BASE                @DA02646  05760031
009D36 47F0 0B02      00B02    13066+          B     HARDWTF5           GO TO HARD WAIT FF5      @DA02646  05790031
009D3A 9108 B001      00001    13067+DTFIX1   TM    1(RB),NFF          NFF=1                              05820031
009D3E 4780 FA64      09D4A    13068+          BZ    DTFIX2             NO                                 05850031
009D42 981C ED46           0902C 13069+          LM    R1,R12,SAVFPF                                         05880031
009D46 47F9 0004      00004    13070+          B     4(R9)              RETURN,EXIT 2                      05910031
009D4A 183B                      13071+DTFIX2   LR    R3,RB                                                 05940031
009D4C 5B30 07CC           007CC 13072+          S     R3,APFT                                               05970031
009D50 4030 FA0C           09CF2 13073+          STH   R3,CPTEOF1         CPTEOF1=OFFSET TO PFT              06000031
009D54 5860 07CC           007CC 13074+          L     R6,APFT                                               06030031
009D58 9101 B001      00001    13075+          TM    1(RB),NF           NF=0 ?                             06060031
009D5C 4780 FAE8      09DCE    13076+          BZ    DTFIX3             YES                                06090031
009D60 5880 ED32           09018 13077+FFPF     L     R8,Q00             SCAN Q00 FOR AN                    06120031
009D64 D501 8002 FA14 00002 09CFA 13078+FFPF4    CLC   2(2,R8),LCPT       UNUSED PAGE-FRAME                  06150031
009D6A 47B0 FAAA      09D90    13079+          BNL   FFPF1              WITH NF=0                          06180031
009D6E 4838 0002           00002 13080+          LH    R3,2(R8)           R3=PFT-OFFSET                      06210031
009D72 4183 6000           00000 13081+          LA    R8,0(R3,R6)        R8=@ OF PFT-ENTRY                  06240031
009D76 9101 8001      00001    13082+          TM    1(R8),NF           NF=1 ?                             06270031
009D7A 4710 FA7E      09D64    13083+          BO    FFPF4              YES                                06300031
009D7E D501 8004 FA18 00004 09CFE 13084+          CLC   4(2,R8),PNRM1      UNUSED PAGE-FRAME ?                06330031
009D84 4770 FAAA      09D90    13085+          BNE   FFPF1              NO                                 06360031
009D88 4030 FA0E           09CF4 13086+FFPF2    STH   R3,CPTEOF2         CPTEOF2=PFT-OFFSET                 06390031
009D8C 47F0 FAD4      09DBA    13087+          B     DTFIX4                                                06420031
009D90 5810 07E4           007E4 13088+FFPF1    L     R1,EOCADDR                             @DM11453    06450031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

009D94 4111 0001            00001 13089+         LA    R1,1(R1)                                                  06480031
009D98 8810 000B            0000B 13090+         SRL   R1,11              R1=# OF PFT-ENTRIES                   06510031
009D9C 1B33                       13091+         SR    R3,R3              R3=PFT-OFFSET                         06540031
009D9E 4183 6000            00000 13092+FFPF3    LA    R8,0(R3,R6)        R8=@ OF PFT-ENTRY                     06570031
009DA2 9500 8001      00001       13093+         CLI   1(R8),0            NFF=0 & DR=0 & SP=0 & NF=0 ?          06600031
009DA6 4780 FAA2      09D88       13094+         BE    FFPF2              YES                                   06630031
009DAA 4133 0008            00008 13095+         LA    R3,8(R3)           GET NEXT ENTRY                        06660031
009DAE 4610 FAB8            09D9E 13096+         BCT   R1,FFPF3           ALL PFT-ENTRIES TESTED ?              06690031
009DB2 981C ED46            0902C 13097+         LM    R1,R12,SAVFPF                                            06720031
009DB6 47F9 0004      00004       13098+         B     4(R9)              RETURN,EXIT 2 (NO PF FOUND)           06750031
009DBA 8820 000B            0000B 13099+DTFIX4   SRL   R2,11                                                   06780031
009DBE 8920 0001            00001 13100+         SLL   R2,1                                                    06810031
009DC2 5A20 E3D2            086B8 13101+         A     R2,APT             R2=@ OF 'OLD' PT-ENTRY       @DM12778 06840032
009DC6 5020 F9F2            09CD8 13102+         ST    R2,OLDPTE                                               06870031
009DCA 4590 FC22            09F08 13103+         BAL   R9,EXCH            EXCHANGE PAGE-FRAMES                  06900031
009DCE 4590 F888            09B6E 13104+DTFIX3   BAL   R9,REMOVE          REMOVE PF FROM SELECTION-POOL         06930031
009DD2 9602 B001      00001       13105+         OI    1(RB),SP           SET SP=1                              06960031
009DD6 47F0 FA3A      09D20       13106+         B     DTFIX5                                                   06990031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13108+*                                                                  07080031
                                 13109+*        FUNCTION :               PFIX PAGE                        07110031
                                 13110+*        PARAMETERS :             R2   PAGE ADDRESS                07140031
                                 13111+*                                 RB   PAGE FRAME TABLE ENTRY ADDR 07170031
                                 13112+*        DPFIX WILL BE CALLED FROM  PFIX, EXCHANGE  AND  PMR       07200031
                                 13113+*                                                                  07230031
                                 13114+*        RETURN VIA LINK REGISTER R9 :                             07260031
                                 13115+*             EXIT 1 (DISPL. 0) - PAGE PFIXED                      07290031
                                 13116+*             EXIT 2 (DISPL. 4) - PFIX NOT POSSIBLE                07320031
                                 13117+*                                 (PFIX-COUNTER = 255)             07350031
                                 13118+*                                                                  07380031



009DDA 9039 ED46           0902C 13120+DPFIX    STM    R3,R9,SAVFPF      SAVE REGISTERS                   07440031
009DDE 183B                      13121+         LR     R3,RB                                              07470031
009DE0 5B30 07CC           007CC 13122+         S      R3,APFT           R3=OFFSET TO PFT                 07500031
009DE4 9102 B001      00001      13123+         TM     1(RB),SP          SP=1 ?                           07530031
009DE8 4710 FB12      09DF8      13124+         BO     DPFIX1            YES                              07560031
009DEC 5860 07CC           007CC 13125+         L      R6,APFT                                            07590031
009DF0 4590 F888           09B6E 13126+         BAL    R9,REMOVE         REMOVE PF FROM SELECTION-POOL    07620031
009DF4 9602 B001      00001      13127+         OI     1(RB),SP          SET SP=1                         07650031
009DF8 8830 0003           00003 13128+DPFIX1   SRL    R3,3              R3=OFFSET TO PFTX                07680031
009DFC 5A30 07D0           007D0 13129+         A      R3,APFTX                                           07710031
009E00 95FF 3000      00000      13130+         CLI    0(R3),255         PFIXC=255 ?                      07740031
009E04 4770 FB2A      09E10      13131+         BNE    DPFIX2            NO                               07770031
009E08 9839 ED46           0902C 13132+         LM     R3,R9,SAVFPF      RESTORE REGISTERS                07800031
009E0C 47F9 0004      00004      13133+         B      4(R9)             RETURN,EXIT 2                    07830031

009E10 1B44                      13135+DPFIX2   SR     R4,R4                                              07890031
009E12 4343 0000           00000 13136+         IC     R4,0(R3)                                           07920031
009E16 4144 0001           00001 13137+         LA     R4,1(R4)          PFIXC=PFIXC+1                    07950031
009E1A 4243 0000           00000 13138+         STC    R4,0(R3)                                           07980031
009E1E 94FE B001      00001      13139+         NI     1(RB),X'FF'-NF    SET NF=0                         08010031
009E22 9839 ED46           0902C 13140+         LM     R3,R9,SAVFPF                                       08040031
009E26 07F9                      13141+         BR     R9                RETURN,EXIT 1                    08070031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13143+*                                                                  08190031
                                 13144+*        FUNCTION :               EXCHANGE THE CONTENTS OF 2 PAGE  08220031
                                 13145+*                                 FRAMES AND PFIX PAGE             08250031
                                 13146+*        PARAMETERS :             R2   PAGE ADDRESS                08280031
                                 13147+*                                 RB   PAGE FRAME TABLE ENTRY ADDR 08310031
                                 13148+*                                      OF PAGE FRAME CONTAINING PAGE 08340031
                                 13149+*                                      TO BE PFIXED                08370031
                                 13150+*                                 R3   PAGE FRAME TABLE ENTRY ADDR 08400031
                                 13151+*                                      OF PAGE FRAME IN WHICH THE PAGE 08430031
                                 13152+*                                      HAS TO BE PFIXED            08460031
                                 13153+*                                 R6   FIXWTAB ENTRY          @DA06287 08470032
                                 13154+*        EXCHANGE WILL BE CALLED FROM  PFIX  AND  PMR                08490031
                                 13155+*                                                                  08520031
                                 13156+*        RETURN VIA LINK REGISTER R9 :                             08550031
                                 13157+*             EXIT 1 (DISPL. 0) - EXCHANGE AND PFIX DELAYED        08580031
                                 13158+*                                  (WILLL BE DONE IN DEQU)         08610031
                                 13159+*             EXIT 2 (DISPL. 4) - EXCHANGE AND PFIX COMPLETE       08640031
                                 13160+*                                                                  08670031


009E28 9102 3001      00001      13162+EXCHANGE TM    1(R3),SP            SP=0 ?                           08730031
009E2C 4780 FB9E      09E84      13163+         BZ    EXCHA               YES                              08760031
009E30 9023 FBEA           09ED0 13164+         STM   R2,R3,SAVE2         SAVE REGISTERS R2 AND R3     @DA09070 08761134
009E34 4823 0000           00000 13165+         LH    R2,0(R3)                                         @DA09070 08761234
009E38 8820 0005           00005 13166+         SRL   R2,5                PAGE TFIXED ?                @DA09070 08761334
009E3C 1222                      13167+         LTR   R2,R2                                            @DA09070 08761734
009E3E 4780 FB8E      09E74      13168+         BZ    EXCHA01             NO, BRANCH (I/O OUTSTANDING) @DA09070 08761834
009E42 5820 FBEA           09ED0 13169+         L     R2,SAVE2            RESTORE R2                   @DA09070 08761934
009E46 D501 08C6 E3D6 008C6 086BC 13170+         CLC   LOWFXPTR,F0         PAGES FIXED BY FAST-TRANSL.  @D32XDRP 08762032
009E4C 4780 FB7E      09E64      13171+         BZ    EXCHA0              NO, BRANCH                   @D32XDRP 08763032
009E50 9089 F08E           09374 13172+         STM   R8,R9,RESA1         SAVE REGISTERS               @D32XDRP 08764032
009E54 5890 077C           0077C 13173+         L     R9,ACCWT            LOAD FIRST BASE FOR CCW-TR.  @D32XDRP 08765032
009E58 4589 0F48           00F48 13174+         BAL   R8,DEFIXALL-CCWTADR(R9)  FREE PAGES              @D32XDRP 08766032
009E5C 9889 F08E           09374 13175+         LM    R8,R9,RESA1         RESTORE REGISTERS            @D32XDRP 08767032
009E60 47F0 FB42      09E28      13176+         B     EXCHANGE            TRY IT ONCE MORE             @D32XDRP 08768032
                           09E64 13177+EXCHA0   EQU   *                                              @DA09070 08768534
009E64 4820 067E           0067E 13178+         LH    R2,PIK              SET CORRECT                  @D32XDRP 08769032
009E68 8820 0004           00004 13179+         SRL   R2,L4               BIT IN DEFIX SWITCH          @D32XDRP 08769632
009E6C 4322 E48E           08774 13180+         IC    R2,BITTAB(R2)       TO INDICATE DEFIXING         @DM12800 08770232
009E70 4420 E6F0           089D6 13181+         EX    R2,SETDEFIX         REQUIRED FOR FAST-TRANSL.    @D32XDRP 08770832
                           09E74 13182+EXCHA01  EQU   *                                              @DA09070 08771134
009E74 9823 FBEA           09ED0 13183+         LM    R2,R3,SAVE2         RESTORE REGISTERS            @D32XDRP 08771432
009E78 D200 E45F 6000 08745 00000 13184+         MVC   TIKSVE(1),0(R6)     SAVE TIK/PIK FROM FIXWTAB  @DA06287 08820032
009E7E 9601 E45F      08745      13185+         OI    TIKSVE,EXCHIND      SET EXCHANGE-INDICATOR               08850031
009E82 07F9                      13186+         BR    R9                  RETURN,EXIT 1                        08880031
009E84 901C FBF2           09ED8 13187+EXCHA    STM   R1,R12,SAVE12                                          08910031
009E88 94F7 B001      00001      13188+         NI    1(RB),X'FF'-NFF     MOVE CONTENTS OF NFF-BIT             08940031
009E8C 9108 3001      00001      13189+         TM    1(R3),NFF           FROM 'NEW' TO 'OLD' PAGE-FRAME       08970031
009E90 4780 FBB2      09E98      13190+         BZ    EXCHB               AND SET NFF-BIT OF 'NEW'             09000031
009E94 9608 B001      00001      13191+         OI    1(RB),NFF           PAGE-FRAME TO ZERO                   09030031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

009E98 94F7 3001      00001       13192+EXCHB    NI    1(R3),X'FF'-NFF                                          09060031
009E9C 5BB0 07CC            007CC 13193+         S     RB,APFT                                                  09090031
009EA0 40B0 FA0C            09CF2 13194+         STH   RB,CPTEOF1         CPTEOF1=PFT-OFFSET OF 'OLD' PF     09120031
009EA4 5B30 07CC            007CC 13195+         S     R3,APFT                                                  09150031
009EA8 4030 FA0E            09CF4 13196+         STH   R3,CPTEOF2         CPTEOF2=PFT-OFFSET OF 'NEW' PF     09180031
009EAC 5860 07CC            007CC 13197+         L     R6,APFT                                                  09210031
009EB0 8820 000B            0000B 13198+         SRL   R2,11                                                    09240031
009EB4 8920 0001            00001 13199+         SLL   R2,1                                                     09270031
009EB8 5A20 E3D2            086B8 13200+         A     R2,APT             R2=@ OF 'OLD' PT-ENTRY       @DM12778 09300032
009EBC 5020 F9F2            09CD8 13201+         ST    R2,OLDPTE                                                09330031
009EC0 4590 FC22            09F08 13202+         BAL   R9,EXCH            EXCHANGE PAGE-FRAMES               09360031
009EC4 4590 FAF4            09DDA 13203+         BAL   R9,DPFIX           PFIX PAGE-FRAME                    09390031
009EC8 981C FBF2            09ED8 13204+         LM    R1,R12,SAVE12                                            09420031
009ECC 47F9 0004      00004       13205+         B     4(R9)              RETURN,EXIT 2                      09450031
009ED0                            13206+SAVE2    DS    2F                                                       09480031
009ED8                            13207+SAVE12   DS    12F                                                      09510031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

009F08 4830 FA0C            09CF2 13209+EXCH     LH    R3,CPTEOF1          R3=PFT-OFFSET OF 'OLD' PF              09600031
009F0C 4840 FA0E            09CF4 13210+         LH    R4,CPTEOF2          R4=PFT-OFFSET OF 'NEW' PF              09630031
009F10 4813 6002            00002 13211+         LH    R1,2(R3,R6)         CHANGE QUEUE-POINTERS                  09660031
009F14 4823 6006            00006 13212+         LH    R2,6(R3,R6)         AND EXCHANGE PAGE-NUMBERS              09690031
009F18 4874 6002            00002 13213+         LH    R7,2(R4,R6)                                                09720031
009F1C 4884 6006            00006 13214+         LH    R8,6(R4,R6)                                                09750031
009F20 4042 6002            00002 13215+         STH   R4,2(R2,R6)                                                09780031
009F24 4041 6006            00006 13216+         STH   R4,6(R1,R6)                                                09810031
009F28 4038 6002            00002 13217+         STH   R3,2(R8,R6)                                                09840031
009F2C 4037 6006            00006 13218+         STH   R3,6(R7,R6)                                                09870031
009F30 4173 6000            00000 13219+         LA    R7,D0(R3,R6)                                               09900031
009F34 4184 6000            00000 13220+         LA    R8,D0(R4,R6)                                               09930031
009F38 D705 7002 8002 00002 00002 13221+         XC    D2(L6,R7),D2(R8)                                           09960031
009F3E D705 8002 7002 00002 00002 13222+         XC    D2(L6,R8),D2(R7)                                           09990031
009F44 D705 7002 8002 00002 00002 13223+         XC    D2(L6,R7),D2(R8)                                           10020031
009F4A 4823 6004            00004 13224+         LH    R2,4(R3,R6)                                                10050031
009F4E 8930 0008            00008 13225+         SLL   R3,8                R3=@ OF 'OLD' PAGE-FRAME                10080031
009F52 8940 0008            00008 13226+         SLL   R4,8                R4=@ OF 'NEW' PAGE-FRAME                10110031
009F56 09A3                       13227+         ISK   R10,R3              EXCHANGE STORAGE-KEYS                  10140031
009F58 09B4                       13228+         ISK   R11,R4                                                     10170031
009F5A 08B3                       13229+         SSK   R11,R3                                                     10200031
009F5C 08A4                       13230+         SSK   R10,R4                                                     10230031
009F5E 4150 0008            00008 13231+         LA    R5,8                INITIALIZE COUNTER                     10260031
009F62 5810 F9F2            09CD8 13232+         L     R1,OLDPTE           R1=@ OF 'OLD' PT-ENTRY                 10290031
009F66 ACFB FA1C      09D02       13233+         STNSM PSWB0,X'FB'         SET T-BIT OFF                          10320031
009F6A D501 7004 FA18 00004 09CFE 13234+         CLC   4(2,R7),PNRM1       UNUSED ?                               10350031
009F70 4780 FCF4      09FDA       13235+         BE    EXCH1               YES                                    10380031
009F74 8920 0001            00001 13236+         SLL   R2,1                                                       10410031
009F78 5A20 E3D2            086B8 13237+         A     R2,APT              R2=@ OF THE OTHER PTE          @DM12778 10440032
009F7C 48A1 0000            00000 13238+         LH    R10,0(R1)           EXCHANGE PF-ADDR.OF PTE'S              10470031
009F80 4882 0000            00000 13239+         LH    R8,0(R2)                                                   10500031
009F84 5090 F9F6            09CDC 13240+         ST    R9,SAVE9                                                   10530031
009F88 8CA0 0003            00003 13241+         SRDL  R10,3                                                      10560031
009F8C 8C80 0003            00003 13242+         SRDL  R8,3                                                       10590031
009F90 17A8                       13243+         XR    R10,R8                                                     10620031
009F92 178A                       13244+         XR    R8,R10                                                     10650031
009F94 17A8                       13245+         XR    R10,R8                                                     10680031
009F96 8DA0 0003            00003 13246+         SLDL  R10,3                                                      10710031
009F9A 8D80 0003            00003 13247+         SLDL  R8,3                                                       10740031
009F9E 5890 F9F6            09CDC 13248+         L     R9,SAVE9                                                   10770031
009FA2 40A1 0000            00000 13249+         STH   R10,0(R1)                                                  10800031
009FA6 4082 0000            00000 13250+         STH   R8,0(R2)                                                   10830031
009FAA D2FF FD20 4000 0A006 00000 13251+EXCH2    MVC   EXCHFLD,0(R4)       EXCHANGE CONTENTS OF BOTH      @DA06732 10832033
009FB0 D2FF 4000 3000 00000 00000 13252+         MVC   0(L256,R4),0(R3)    PAGE FRAMES                    @DA06732 10834033
009FB6 D2FF 3000 FD20 00000 0A006 13253+         MVC   0(L256,R3),EXCHFLD                                 @DA06732 10836033
009FBC 4133 0100            00100 13254+         LA    R3,256(R3)                                                 10950031
009FC0 4144 0100            00100 13255+         LA    R4,256(R4)                                                 10980031
009FC4 4650 FCC4            09FAA 13256+         BCT   R5,EXCH2                                                   11010031
009FC8 4830 FA0E            09CF4 13257+EXCH4    LH    R3,CPTEOF2          R3=PFT-OFFSET OF 'NEW' PF              11040031
009FCC 41B3 6000            00000 13258+         LA    RB,0(R3,R6)         RB=@PFT-ENTRY OF 'NEW' PF              11070031
009FD0 AD04 FA1C      09D02       13259+         STOSM PSWB0,X'04'         SET T-BIT ON                           11100031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

009FD4 B20D 0000                  13260+         PTLB                                                  @DL281013 11130031
009FD8 07F9                       13261+         BR    R9                RETURN                                    11160031
009FDA 1824                       13262+EXCH1    LR    R2,R4                                                       11190031
009FDC 8820 0008            00008 13263+         SRL   R2,8              INSERT @ OF 'NEW'                         11220031
009FE0 9101 1001      00001       13264+         TM    1(R1),X'01'       PAGE-FRAME INTO PTE                       11250031
009FE4 4780 FD06      09FEC       13265+         BZ    EXCH5                                                       11280031
009FE8 4122 0001            00001 13266+         LA    R2,1(R2)                                                    11310031
009FEC 4021 0000            00000 13267+EXCH5    STH   R2,0(R1)                                                    11340031
009FF0 D2FF 4000 3000 00000 00000 13268+EXCH3    MVC   0(256,R4),0(R3)   MOVE CONTENTS OF 'OLD'                    11370031
009FF6 4133 0100            00100 13269+         LA    R3,256(R3)        PAGE-FRAME INTO 'NEW'                     11400031
009FFA 4144 0100            00100 13270+         LA    R4,256(R4)        PAGE-FRAME                                11430031
009FFE 4650 FD0A            09FF0 13271+         BCT   R5,EXCH3                                                    11460031
00A002 47F0 FCE2      09FC8       13272+         B     EXCH4                                                       11490031
00A006                            13273+EXCHFLD  DS    CL256             WORKFIELD FOR EXCHANGE          @DA06732 11492033
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A106 5860 07CC            007CC 13275+BQCL     L     R6,APFT                                                  11550031
00A10A 9200 ED76      0905C       13276+BQCL8    MVI   SCAN,0              INDICATE SCANNING OF Q00             11580031
00A10E 5830 ED32            09018 13277+BQCL4    L     R3,Q00              INITIALIZE SCANNING OF Q00           11610031
00A112 D501 3002 FA14 00002 09CFA 13278+          CLC   2(2,R3),LCPT        Q00 EMPTY                            11640031
00A118 47B0 FE88      0A16E       13279+          BNL   BQCL1               YES                                  11670031
00A11C 4833 0002            00002 13280+BQCL7    LH    R3,2(R3)            R3=PFT-OFFSET                        11700031
00A120 1813                       13281+          LR    R1,R3                                                    11730031
00A122 8910 0008            00008 13282+          SLL   R1,8                R1=ADDR.OF PAGE-FRAME                11760031
00A126 B213 1000      00000       13283+          RRB   0(R1)               RESET REFERENCE-BIT                  11790031
00A12A 4780 FEB0            0A196 13284+          BC    8,BQCL9             R=0,C=0 BEFORE RRB                   11820031
00A12E 4740 FE68            0A14E 13285+          BC    4,BQCL2             R=0,C=1 BEFORE RRB                   11850031
00A132 4720 FE80            0A166 13286+          BC    2,BQCL3             R=1,C=0 BEFORE RRB                   11880031
                                  13287+*                                   R=1,C=1 BEFORE RRB                   11910031
00A136 4590 F888            09B6E 13288+          BAL   R9,REMOVE           REMOVE PAGE FROM Q00 OR Q01          11940031
00A13A 5870 ED42            09028 13289+          L     R7,Q11                                                   11970031
00A13E 4590 F8B4            09B9A 13290+          BAL   R9,INSBOT           INSERT PAGE AT BOTTOM OF Q11         12000031
00A142 9500 ED76      0905C       13291+          CLI   SCAN,0              SCANNING OF Q00                      12030031
00A146 4780 FE28      0A10E       13292+          BE    BQCL4               YES                                  12060031
00A14A 47F0 FE8C      0A172       13293+          B     BQCL5               NO (SCANNING OF Q01)                 12090031
00A14E 9501 ED76      0905C       13294+BQCL2     CLI   SCAN,1              SCANNING OF Q01                      12120031
00A152 4780 FEB0      0A196       13295+          BE    BQCL9               YES                                  12150031
00A156 5870 ED3E            09024 13296+          L     R7,Q01                                                   12180031
00A15A 4590 F888            09B6E 13297+BQCL6     BAL   R9,REMOVE           REMOVE PAGE FROM Q00                 12210031
00A15E 4590 F8B4            09B9A 13298+          BAL   R9,INSBOT           INSERT PAGE AT BOTTOM OF Q01         12240031
00A162 47F0 FE28      0A10E       13299+          B     BQCL4               OR Q10 RESP.                         12270031
00A166 5870 ED36            0901C 13300+BQCL3     L     R7,Q10                                                   12300031
00A16A 47F0 FE74      0A15A       13301+          B     BQCL6                                                    12330031
00A16E 9201 ED76      0905C       13302+BQCL1     MVI   SCAN,1              INDICATE SCANNING OF Q01             12360031
00A172 5830 ED3E            09024 13303+BQCL5     L     R3,Q01              INITIALIZE SCANNING OF Q01           12390031
00A176 D501 3002 FA14 00002 09CFA 13304+          CLC   2(2,R3),LCPT        Q01 EMPTY                            12420031
00A17C 4740 FE36      0A11C       13305+          BL    BQCL7               NO                                   12450031
00A180 4590 FEB2            0A198 13306+          BAL   R9,SPEMPTY          TEST,IF SELECTION-POOL EMPTY         12480031
00A184 5870 ED32            09018 13307+          L     R7,Q00              APPEND Q10 TO Q00,HQ TO Q10,         12780031
00A188 D20F ED32 ED36 09018 0901C 13308+          MVC   Q00(16),Q10         Q01 TO HQ,Q11 TO Q01,                12810031
00A18E 5070 ED42            09028 13309+          ST    R7,Q11              'OLD' Q00 TO Q11                     12840031
00A192 47F0 FE24      0A10A       13310+          B     BQCL8                                                    12870031
                                  0A196 13311+BQCL9     EQU   *                                                  12900031
00A196 07FC                       13312+          BR    R12                 RETURN                               12930031



                                  13314+*                                   TEST,IF SELECTION-POOL IS EMPTY      12990031
00A198 5830 ED36            0901C 13315+SPEMPTY   L     R3,Q10                                                   13020031
00A19C D501 3002 FA14 00002 09CFA 13316+          CLC   2(2,R3),LCPT        Q10 EMPTY                            13050031
00A1A2 0749                       13317+          BCR   4,R9                NO,RETURN                            13080031
00A1A4 5830 ED42            09028 13318+          L     R3,Q11                                                   13110031
00A1A8 D501 3002 FA14 00002 09CFA 13319+          CLC   2(2,R3),LCPT        Q11 EMPTY                            13140031
00A1AE 0749                       13320+          BCR   4,R9                NO,RETURN                            13170031
00A1B0 5830 ED3A            09020 13321+          L     R3,HQ                                                    13200031
00A1B4 D501 3002 FA14 00002 09CFA 13322+          CLC   2(2,R3),LCPT        HQ EMPTY                             13230031
00A1BA 0749                       13323+          BCR   4,R9                NO,RETURN                            13260031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
00A1BC 47F0 F8F6      09BDC       13324+         B     DEQUX                                                  13290031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A1C0 5010 D0AA            0A390 13326+PAGEIO   ST    R1,PFADDR          PFADDR=@PAGE-FRAME                     13350031
00A1C4 D202 D03B D0AB 0A321 0A391 13327+         MVC   CHARW+1(3),PFADDR+1  PAGE-FRAME-ADDRESS                  13380031
00A1CA D202 D063 D0AB 0A349 0A391 13328+         MVC   CHBRW+1(3),PFADDR+1                                     13410031
00A1D0 5810 07D8            007D8 13329+         L     R1,ADPD                                                 13440031
                            00000 13330+         USING DPDADR,R1                                               13470031
00A1D4 4830 1002            00002 13331+         LH    R3,DEVICE          LOAD DIV1 AND DIV2 WITH              13500031
00A1D8 4883 D08A            0A370 13332+         LH    DIV1,DCL(R3)       DEVICE-CONSTANTS                     13530031
00A1DC 4833 D08C            0A372 13333+         LH    DIV2,DCL+2(R3)                                          13560031
00A1E0 9501 FA1B      09D01       13334+PG1X     CLI   IOSW,1             READ ONLY                            13590031
00A1E4 4780 FF68      0A24E       13335+         BE    PG2X               YES                                  13620031
00A1E8 9502 FA1B      09D01       13336+         CLI   IOSW,2             WRITE ONLY                           13650031
00A1EC 4780 FF98      0A27E       13337+         BE    PG3X               YES                                  13680031
00A1F0 1840                       13338+         LR    R4,R0              R4=REL.PGE# FOR PGE-IN       @DL30SSM 13710031
00A1F2 41A0 D09A            0A380 13339+         LA    R10,SKADA                                       @DL30SSM 13740031
00A1F6 4590 FFC8            0A2AE 13340+         BAL   R9,SEEKADDR        CALCULATE SEEK-ADDRESS       @DL30SSM 13770031
00A1FA 1842                       13341+         LR    R4,R2              R4=REL.PGE# FOR PGE-OUT      @DL30SSM 13800031
00A1FC 41A0 D0A2            0A388 13342+         LA    R10,SKADB          R10=@TRACK-REF-FIELD         @DL30SSM 13830031
00A200 4590 FFC8            0A2AE 13343+         BAL   R9,SEEKADDR        CALCULATE SEEK-ADDRESS       @DL30SSM 13860031
                            00000 13344+         USING CCBADR,R1                                               13890031
00A204 4110 D07A            0A360 13345+         LA    R1,CCBB                                                 13920031
                                  13346+* SUPERVISOR - SYSIO - 5745-SC-SUP - REL. 34.0                 @D34SDAP 00500034
00A208 0A0F                       13347+         SVC   15                 HEAD QUEUE I/O REQUEST       @D34SDAP 01860034
00A20A 9180 1002      00002       13348+         TM    2(1),X'80'         HAS TRAFFIC BIT BEEN POSTED  @D34SDAP 02300034
00A20E 4710 FF2E      0A214       13349+         BO    *+6                YES                                  02400028
00A212 0A07                       13350+         SVC   7                  NO, WAIT FOR I/O COMPLETE    @D34SDAP 02500034
00A214 9120 1002      00002       13351+         TM    CCBCOM1,DISERR     UNREC.I/O ERROR              @DM03739 13980031
00A218 58B0 0844            00844 13352+         L     RB,HEX1000         RESTORE FIRST SV-BASE REG    @DM03739 14010031
00A21C 4710 0B0A      00B0A       13353+         BO    HARDWTF9           YES,HARD WAIT                @DM03739 14040031
00A220 9108 1003      00003       13354+         TM    CCBCOM2,NORCDFND   NO RECORD FOUND COND.                 14070031
00A224 4710 0B0A      00B0A       13355+         BO    HARDWTF9           YES,RTL OF PAGE DATA SET DAM.        14100031
00A228 4110 D06A            0A350 13356+         LA    R1,CCBA                                                 14130031
                                  13357+* SUPERVISOR - SYSIO - 5745-SC-SUP - REL. 34.0                 @D34SDAP 00500034
00A22C 0A0F                       13358+         SVC   15                 HEAD QUEUE I/O REQUEST       @D34SDAP 01860034
00A22E 9180 1002      00002       13359+         TM    2(1),X'80'         HAS TRAFFIC BIT BEEN POSTED  @D34SDAP 02300034
00A232 4710 FF52      0A238       13360+         BO    *+6                YES                                  02400028
00A236 0A07                       13361+         SVC   7                  NO, WAIT FOR I/O COMPLETE    @D34SDAP 02500034
00A238 9120 1002      00002       13362+         TM    CCBCOM1,DISERR     UNREC.I/O ERROR              @DM03739 14190031
00A23C 58B0 0844            00844 13363+         L     RB,HEX1000         RESTORE FIRST SV-BASE REG    @DM03739 14220031
00A240 4710 0B0A      00B0A       13364+         BO    HARDWTF9           YES,HARD WAIT                @DM03739 14250031
00A244 9108 1003      00003       13365+         TM    CCBCOM2,NORCDFND   NO RECORD FOUND COND.                 14280031
00A248 4710 0B0A      00B0A       13366+         BO    HARDWTF9           YES,RTL OF PAGE DATA SET DAM.        14310031
00A24C 07FC                       13367+         BR    R12                RETURN                               14340031
00A24E 1840                       13368+PG2X     LR    R4,R0              R4=REL.PAGE# FOR PAGE-IN             14370031
00A250 41A0 D09A            0A380 13369+         LA    R10,SKADA          R10=@TRACK-REFERENCE-FIELD           14400031
00A254 4590 FFC8            0A2AE 13370+         BAL   R9,SEEKADDR        CALCULATE SEEK-ADDRESS               14430031
00A258 4110 D06A            0A350 13371+         LA    R1,CCBA                                                 14460031
                                  13372+* SUPERVISOR - SYSIO - 5745-SC-SUP - REL. 34.0                 @D34SDAP 00500034
00A25C 0A0F                       13373+         SVC   15                 HEAD QUEUE I/O REQUEST       @D34SDAP 01860034
00A25E 9180 1002      00002       13374+         TM    2(1),X'80'         HAS TRAFFIC BIT BEEN POSTED  @D34SDAP 02300034
00A262 4710 FF82      0A268       13375+         BO    *+6                YES                                  02400028
00A266 0A07                       13376+         SVC   7                  NO, WAIT FOR I/O COMPLETE    @D34SDAP 02500034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A268 9120 1002      00002       13377+         TM    CCBCOM1,DISERR     UNREC.I/O ERROR              @DM03739 14520031
00A26C 58B0 0844            00844 13378+         L     RB,HEX1000         RESTORE FIRST SV-BASE REG    @DM03739 14550031
00A270 4710 0B0A      00B0A       13379+         BO    HARDWTF9           YES,HARD WAIT                @DM03739 14580031
00A274 9108 1003      00003       13380+         TM    CCBCOM2,NORCDFND   NO RECORD FOUND COND.                  14610031
00A278 4710 0B0A      00B0A       13381+         BO    HARDWTF9           YES,RTL OF P.D.SET DAMAGED            14640031
00A27C 07FC                       13382+         BR    R12                RETURN                                14670031
00A27E 1842                       13383+PG3X     LR    R4,R2              R4=REL.PAGE# FOR PAGE-OUT             14700031
00A280 41A0 D0A2            0A388 13384+         LA    R10,SKADB          R10=@TRACK-REFERENCE-FIELD            14730031
00A284 4590 FFC8            0A2AE 13385+         BAL   R9,SEEKADDR        CALCULATE SEEK-ADDRESS                14760031
00A288 4110 D07A            0A360 13386+         LA    R1,CCBB                                                  14790031
                                  13387+* SUPERVISOR - SYSIO - 5745-SC-SUP - REL. 34.0                @D34SDAP 00500034
00A28C 0A0F                       13388+         SVC   15                 HEAD QUEUE I/O REQUEST       @D34SDAP 01860034
00A28E 9180 1002      00002       13389+         TM    2(1),X'80'         HAS TRAFFIC BIT BEEN POSTED  @D34SDAP 02300034
00A292 4710 FFB2      0A298       13390+         BO    *+6                YES                                   02400028
00A296 0A07                       13391+         SVC   7                  NO, WAIT FOR I/O COMPLETE    @D34SDAP 02500034
00A298 9120 1002      00002       13392+         TM    CCBCOM1,DISERR     UNREC.I/O ERROR              @DM03739 14850031
00A29C 58B0 0844            00844 13393+         L     RB,HEX1000         RESTORE FIRST SV-BASE REG    @DM03739 14880031
00A2A0 4710 0B0A      00B0A       13394+         BO    HARDWTF9           YES,HARD WAIT                @DM03739 14910031
00A2A4 9108 1003      00003       13395+         TM    CCBCOM2,NORCDFND   NO RECORD FOUND COND.                  14940031
00A2A8 4710 0B0A      00B0A       13396+         BO    HARDWTF9           YES,RTL OF P.D. SET DAMAGED           14970031
                            00000 13397+         USING DPDADR,R1          ADDRESS DPD TABLE                     15000031
00A2AC 07FC                       13398+         BR    R12                RETURN                                15030031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A2AE 8E40 0020            00020 13400+SEEKADDR SRDA  R4,32             CALCULATE RT                          15090031
00A2B2 1D48                       13401+         DR    R4,DIV1           R5=RT,R4=REST                         15120031
00A2B4 1864                       13402+         LR    R6,R4             SAVE REST                             15150031
00A2B6 5A50 1004            00004 13403+         A     R5,RTL            RTL+RT                                15180031
00A2BA 1875                       13404+         LR    R7,R5             SAVE RTL+RT                           15210031
00A2BC 1B44                       13405+         SR    R4,R4             CALCULATE CC AND HH                   15240031
00A2BE 1D43                       13406+         DR    R4,DIV2           R4=HH,R5=CC                           15270031
00A2C0 424A 0006            00006 13407+         STC   R4,6(R10)         STORE HEAD# INTO TRACK REF.FLD.       15300031
00A2C4 425A 0004            00004 13408+         STC   R5,4(R10)         STORE CYLINDER# INTO                  15330031
00A2C8 8850 0008            00008 13409+         SRL   R5,8              TRACK REF.FLD.                        15360031
00A2CC 425A 0003            00003 13410+         STC   R5,3(R10)                                               15390031
00A2D0 4166 0001            00001 13411+         LA    R6,1(R6)          R=REST+1                              15420031
00A2D4 426A 0007            00007 13412+         STC   R6,7(R10)         STORE R INTO TRACK REF.FLD.           15450031
                                  13413+************************************************************ @DL30SSM 15510031
                                  13414+*        THE FOLLOWING ROUTINE IS GENERATED IF RPS=YES IS    * @DL30SSM 15540031
                                  13415+*        SPECIFIED IN FOPT.  AT IPL TIME, IF IT IS DISCOVER- * @DL30SSM 15570031
                                  13416+*        -ED THAT THE PAGING DEVICE IS NOT AN RPS DEVICE,    * @DL30SSM 15600031
                                  13417+*        SET SECTORS IN THE READ AND WRITE CHANNEL PROGRAMS  * @DL30SSM 15630031
                                  13418+*        WILL BE CHANGED TO NOPS, EFFECTIVELY.               * @DL30SSM 15660031
                                  13419+************************************************************ @DL30SSM 15690031

00A2D8 9523 D022      0A308       13421+SCVPMGR  CLI   CHA+D8,SETSECT    RPS CHAN PROGRAM              @DL30SSM 15750031
00A2DC 0779                       13422+         BCR   NE,R9             NO, CUT OUT                   @DL30SSM 15780031
00A2DE 5810 07F8            007F8 13423+         L     R1,ARPSR          GET ADRESS OF SCVRT           @DL30SSM 15810031
00A2E2 BF18 D0AE            0A394 13424+         ICM   R1,M8,SCVDEV      GET DEVICE TYPE               @DL30SSM 15840031
00A2E6 1B00                       13425+         SR    R0,R0             ZERO REG ZERO                 @DL30SSM 15870031
00A2E8 BF0C D040      0A326       13426+         ICM   R0,M12,CHARW+D6   GET REC LENGTH                @DL30SSM 15900031
00A2EC 430A 0007            00007 13427+         IC    R0,D7(R10)        GET REC NUMBER                @DL30SSM 15930031
                            0D0AC 13428+         USING SECTCAL,R1        ADDRESS SECT CONV RTNE        @DL30SSM 15960031
00A2F0 4570 1006            0D0B2 13429+         BAL   R7,SCVRTBAL       GO GET SECTOR NUMBER          @DL30SSM 15990031
00A2F4 5810 07D8            007D8 13430+         L     R1,ADPD           RESTORE REG                   @DM08001 16020031
                            00000 13431+         USING CCBADR,R1         RESET ADDRESSING              @DL30SSM 16050031
00A2F8 420A 0000            00000 13432+         STC   R0,D0(R10)        STORE SECT VAL AS ' M'        @DL30SSM 16080031
                                  13433+*                                IN MBBCCHHR                   @DL30SSM 16110031
00A2FC 07F9                       13434+         BR    R9                RETURN                        @DL30SSM 16170031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  13436+*        C H A N N E L - P R O G R A M S                                  16230031

                                  13438+* W A R N I N G - ANY CHANGE IN THE FOLLOWING CHANNEL PROGRAMS @DL30SSM 16290031
                                  13439+*            MAY REQUIRE A CHANGE IN THE B-TRANSIENT $$BOPENS  @DL30SSM 16320031
                                  13440+*            IF RPS=YES, THESE TWO CHANNEL PROGRAMS MUST NOT   @DL30SSM 16350031
                                  13441+*            BE SEPARATED - $$BOPENS DEPENDS ON IT.            @DL30SSM 16380031

00A2FE 0000
00A300 0700A38140000006           13443+CHA      CCW   7,SKADA+1,X'40',6  SEEK                                  16440031
00A308 0800A31040000001           13444+         CCW   TIC,*+8,X'40',1    FOR SET SECTOR IF RPS        @DL30SSM 16500031
00A310 3100A38340000005           13445+         CCW   49,SKADA+3,X'40',5 SRCHIDE                               16560031
00A318 0800A31000000000           13446+         CCW   8,*-8,0,0          TIC                                   16590031
00A320 0600000000000800           13447+CHARW    CCW   6,0,0,2048         RD                                    16620031



00A328 0700A38940000006           13449+CHB      CCW   7,SKADB+1,X'40',6  SEEK                                  16680031
00A330 0800A33840000001           13450+         CCW   TIC,*+8,X'40',1    FOR SET SECTOR IF RPS        @DL30SSM 16740031
00A338 3100A38B40000005           13451+         CCW   49,SKADB+3,X'40',5 SRCHIDE                               16800031
00A340 0800A33800000000           13452+         CCW   8,*-8,0,0          TIC                                   16830031
00A348 0500000000000800           13453+CHBRW    CCW   5,0,0,2048         WD                                    16860031



                                  13455+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                      07100028
00A350 0000                       13456+CCBA     DC    XL2'0' .           RESIDUAL COUNT                        49000028
00A352 1004                       13457+         DC    XL2'1004'   .        COMMUNICATIONS BYTES                50000028
00A354 0000                       13458+         DC    XL2'0' .           CSW STATUS BYTES                      51000028
00A356 00                         13459+         DC    AL1(0)      .          LOGICAL UNIT CLASS                52000028
00A357 0C                         13460+         DC    AL1(12)   .          LOGICAL UNIT                        53000028
00A358 00                         13461+         DC    XL1'0'                                                   54000028
00A359 00A300                     13462+         DC    AL3(CHA)    .      CCW ADDRESS                           55000028
00A35C 00                         13463+         DC    B'00000000'     .      STATUS BYTE                      56000028
00A35D 000000                     13464+         DC    AL3(0) .           CSW CCW ADDRESS                       57000028
                                  13465+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                      07100028
00A360 0000                       13466+CCBB     DC    XL2'0' .           RESIDUAL COUNT                        49000028
00A362 1004                       13467+         DC    XL2'1004'   .        COMMUNICATIONS BYTES                50000028
00A364 0000                       13468+         DC    XL2'0' .           CSW STATUS BYTES                      51000028
00A366 00                         13469+         DC    AL1(0)      .          LOGICAL UNIT CLASS                52000028
00A367 0C                         13470+         DC    AL1(12)   .          LOGICAL UNIT                        53000028
00A368 00                         13471+         DC    XL1'0'                                                   54000028
00A369 00A328                     13472+         DC    AL3(CHB)    .      CCW ADDRESS                           55000028
00A36C 00                         13473+         DC    B'00000000'     .      STATUS BYTE                      56000028
00A36D 000000                     13474+         DC    AL3(0) .           CSW CCW ADDRESS                       57000028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13476+*********************************************************************** 17010031
                                 13477+*  W A R N I N G   ANY CHANGE IN THE FOLLOWING DEVICE TABLE REQUIRES  * 17040031
                                 13478+*                  A CHANGE IN   $ I P L R T 5   ALSO                * 17070031
                                 13479+*                   (LAST BYTE OF IPL CONSTANTS NAMED DT2314,DT3330...* 17100031
                                 13480+*                   SPECIFIES OFFSET OF DEVICE CONSTANTS IN THE       * 17130031
                                 13481+*                   FOLLOWING TABLE)                                  * 17160031
                                 13482+*********************************************************************** 17190031
                                 13483+*  W A R N I N G  2  PHASE $MAINDIR (IJBLBI0) CONTAINS SAME    @DM05118 17220031
                                 13484+*                    DEVICE TABLE, NAME 'PAGDEVTB'. IF THIS    @DM05118 17250031
                                 13485+*                    ONE IS CHANGED, THAT ONE  M U S T  BE     @DM05118 17280031
                                 13486+*                    CHANGED TOO.                              @DM05118 17310031
                                 13487+*********************************************************************@DM05118 17340031
                                 13488+*        D E V I C E - C O N S T A N T S - L I S T                   17370031

00A370 0003                      13490+DCL      DC    H'3'              2314                                 17430031
00A372 0014                      13491+         DC    H'20'                                                  17460031
00A374 0006                      13492+         DC    H'6'              3330                                 17490031
00A376 0013                      13493+         DC    H'19'                                                  17520031
00A378 0003                      13494+         DC    H'3'              3340                                 17550031
00A37A 000C                      13495+         DC    H'12'                                                  17580031
00A37C 0008                      13496+         DC    H'8'              3350                       @D34DDRP  17590034
00A37E 001E                      13497+         DC    H'30'                                        @D34DDRP  17600034

00A380 0000000000000000          13499+SKADA    DC    D'0'              TRACK-REFERENCE-FIELDS               17640031
00A388 0000000000000000          13500+SKADB    DC    D'0'                                                   17670031
00A390                           13501+PFADDR   DS    F                 @PAGE-FRAME                          17700031
00A394 00                        13502+SCVDEV   DC    AL1(0)            SYSVIS DTF DEV TYPE        @DL30SSM  17760031
00A395 00A300                    13503+         DC    AL3(CHA)          ABLE TO FIND CHAN PGM      @DL30SSM  17790031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13505+*                                                                    17880031
                                 13506+*        FUNCTION :               TFREE PAGE                         17910031
                                 13507+*        PARAMETERS :             R3   PAGE-FRAME-NUMBER             17940031
                                 13508+*        DTFREE WILL BE CALLED FROM  TFREE                          17970031
                                 13509+*                                                                    18000031
                                 13510+*        RETURN VIA LINK REGISTER R9 :                               18030031
                                 13511+*             EXIT 1 (DISPL. 0) - PAGE STILL TFIXED OR PFIXED        18060031
                                 13512+*             EXIT 2 (DISPL. 4) - PAGE FREED                         18090031
                                 13513+*                                                                    18120031
                                 13514+*        PARAMETERS RETURNED:     RB   PAGE FRAME TABLE ENTRY ADDR  18150031
                                 13515+*                                                                    18180031



00A398 9039 ED46          0902C 13517+DTFREE   STM   R3,R9,SAVFPF      SAVE REGISTERS                        18240031
00A39C 8930 0003          00003 13518+         SLL   R3,3              R3=PFT-OFFSET                         18270031
00A3A0 5860 07CC          007CC 13519+         L     R6,APFT                                                 18300031
00A3A4 4843 6000          00000 13520+         LH    R4,0(R3,R6)                                             18330031
00A3A8 8C40 0005          00005 13521+         SRDL  R4,5                                                    18360031
00A3AC 0640                     13522+         BCTR  R4,0              TFIXC=TFIXC-1                         18390031
00A3AE 1244                     13523+         LTR   R4,R4             SET CONDITION CODE          @DA02646  18420031
00A3B0 47B0 D0D6    0A3BC       13524+         BNM   TFREEPF7          BR. IF TFIXC NOT NEG.       @DA02646  18450031
00A3B4 58B0 0844          00844 13525+         L     RB,HEX1000        ELSE LOAD BASE              @DA02646  18480031
00A3B8 47F0 0B02    00B02       13526+         B     HARDWTF5          AND GO TO HARDWAIT FF5      @DA02646  18510031
00A3BC 8D40 0005          00005 13527+TFREEPF7 SLDL  R4,5                                          @DA02646  18540031
00A3C0 4043 6000          00000 13528+         STH   R4,0(R3,R6)                                             18570031
00A3C4 41B3 6000          00000 13529+         LA    R11,0(R3,R6)      R11=@ OF PFT-ENTRY                    18600031
00A3C8 4780 D0EC    0A3D2       13530+         BZ    TFREEPF1          TFIXC=0                               18630031
00A3CC 9839 ED46          0902C 13531+TFREEPF2 LM    R3,R9,SAVFPF      RESTORE REGISTERS           @DM01763  18660031
00A3D0 07F9                     13532+         BR    R9                RETURN,EXIT 1               @DM01763  18690031
                          0A3D2 13533+TFREEPF1 EQU   *                                                     18720031
00A3D2 1843                     13534+         LR    R4,R3                                                   18780031
00A3D4 8840 0003          00003 13535+         SRL   R4,3              R4=OFFSET TO PFTX                     18810031
00A3D8 5A40 07D0          007D0 13536+         A     R4,APFTX          R4=@PFTXE                             18840031
00A3DC 9500 4000    00000       13537+         CLI   0(R4),0           PFIXED ?                              18870031
00A3E0 4770 D0E6    0A3CC       13538+         BNE   TFREEPF2          YES                                   18900031
00A3E4 9507 073D    0073D       13539+         CLI   SELECT,SUPVR      TFREE FROM FETCH ?          @DM01763  18960031
00A3E8 4780 D11E    0A404       13540+         BE    TFREEPF3          YES                                   18990031
00A3EC 5870 ED3A          09020 13541+         L     R7,HQ             INSERT PAGE AT THE                    19020031
00A3F0 4590 F8B4          09B9A 13542+         BAL   R9,INSBOT         BOTTOM OF HQ                          19050031
                          0A3F4 13543+TFREEPF6 EQU   *                                                     19080031
00A3F4 4173 6000          00000 13544+         LA    R7,0(R3,R6)       R7=@PFTE                              19110031
00A3F8 94FD 7001    00001       13545+         NI    1(R7),X'FF'-SP    SET SP=0                              19140031
00A3FC 9839 ED46          0902C 13546+         LM    R3,R9,SAVFPF      RESTORE REGISTERS           @DM01763  19170031
00A400 47F9 0004    00004       13547+         B     4(R9)             RETURN,EXIT 2                         19200031
00A404 1843                     13548+TFREEPF3 LR    R4,R3                                                   19230031
00A406 8940 0008          00008 13549+         SLL   R4,8              R4=@ OF PAGE-FRAME                    19260031
00A40A B213 4000    00000       13550+         RRB   0(R4)             RESET REFERENCE-BIT                   19290031
00A40E 47A0 D138          0A41E 13551+         BC    10,TFREEPF4       BRANCH,IF CHANGE-BIT OFF              19320031
00A412 5870 ED3E          09024 13552+         L     R7,Q01            INSERT PAGE AT TOP OF Q00 OR          19350031
00A416 4590 F89A          09B80 13553+TFREEPF5 BAL   R9,INSTOP         Q01 RESP.                             19380031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A41A 47F0 D10E      0A3F4        13554+         B     TFREEPF6                                                  19410031
00A41E 5870 ED32            09018  13555+TFREEPF4 L     R7,Q00                                                    19440031
00A422 47F0 D130      0A416        13556+         B     TFREEPF5                                                  19470031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13558+*                                                                  19560031
                                 13559+*        FUNCTION :               PFREE PAGE                       19590031
                                 13560+*        PARAMETERS :             R2   PAGE-FRAME-ADDRESS          19620031
                                 13561+*        DPFREE WILL BE CALLED FROM  PFREE                        19650031
                                 13562+*                                                                  19680031
                                 13563+*        RETURN VIA LINK REGISTER R9 :                             19710031
                                 13564+*             EXIT 1 (DISPL. 0) - PAGE STILL PFIXED OR PFIX COUNTER19740031
                                 13565+*                                  WAS ALREADY ZERO                19770031
                                 13566+*             EXIT 2 (DISPL. 4) - PAGE FREED                       19800031
                                 13567+*                                                                  19830031
                                 13568+*        PARAMETERS RETURNED:     RB   PAGE FRAME TABLE ENTRY ADDR 19860031
                                 13569+*                                                                  19890031


00A426 9039 ED46           0902C 13571+DPFREE   STM    R3,R9,SAVFPF       SAVE REGISTERS                   19950031
00A42A 1835                      13572+         LR     R3,R5                                               19980031
00A42C 5430 F9FA           09CE0 13573+         N      R3,MASK                                             20010031
00A430 8830 0008           00008 13574+         SRL    R3,8               R3=PFT-OFFSET                    20040031
00A434 1843                      13575+         LR     R4,R3                                               20070031
00A436 8840 0003           00003 13576+         SRL    R4,3               R4=OFFSET TO PFTX                20100031
00A43A 5A40 07D0           007D0 13577+         A      R4,APFTX           R4=@ OF PFTX-ENTRY               20130031
00A43E 9500 4000      00000      13578+         CLI    0(R4),0            PFIXC=0 ?                        20160031
00A442 4770 D166      0A44C      13579+         BNE    DPFREE1            NO                               20190031
00A446 9839 ED46           0902C 13580+DPFREE2  LM     R3,R9,SAVFPF       RESTORE REGISTERS                20220031
00A44A 07F9                      13581+         BR     R9                 RETURN,EXIT 1                    20250031

00A44C 1B55                      13583+DPFREE1  SR     R5,R5                                               20310031
00A44E 4354 0000           00000 13584+         IC     R5,0(R4)                                            20340031
00A452 0650                      13585+         BCTR   R5,0               PFIXC=PFIXC-1                    20370031
00A454 4254 0000           00000 13586+         STC    R5,0(R4)                                            20400031
00A458 9500 4000      00000      13587+         CLI    0(R4),0            STILL PFIXED ?                   20430031
00A45C 4770 D160      0A446      13588+         BNE    DPFREE2            YES                              20460031
00A460 5860 07CC           007CC 13589+         L      R6,APFT                                             20490031
00A464 41B3 6000           00000 13590+         LA     RB,D0(R3,R6)                                        20520031
00A468 4843 6000           00000 13591+         LH     R4,0(R3,R6)                                         20550031
00A46C 8840 0005           00005 13592+         SRL    R4,5                                                20580031
00A470 1244                      13593+         LTR    R4,R4              TFIXC=0 ?                        20610031
00A472 4770 D1A0      0A486      13594+         BNZ    DPFREE3            NO                               20640031
00A476 5870 ED3A           09020 13595+         L      R7,HQ              INSERT PAGE-FRAME AT THE         20670031
00A47A 4590 F8B4           09B9A 13596+         BAL    R9,INSBOT          BOTTOM OF HQ                     20700031
00A47E 4173 6000           00000 13597+         LA     R7,0(R3,R6)                                         20730031
00A482 94FD 7001      00001      13598+         NI     1(R7),X'FF'-SP     SET SP=0                         20760031
00A486 9839 ED46           0902C 13599+DPFREE3  LM     R3,R9,SAVFPF       RESTORE REGISTERS                20790031
00A48A 47F9 0004      00004      13600+         B      4(R9)              RETURN,EXIT 2                    20820031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13602+*                                                                  20910031
                                 13603+*        FUNCTION :               FREEREAL PAGE-FRAME              20940031
                                 13604+*        PARAMETERS :             R2   PAGE-FRAME-ADDRESS          20970031
                                 13605+*        DFREER WILL BE CALLED FROM  FREEREAL                     21000031
                                 13606+*                                                                  21030031
                                 13607+*        RETURN VIA LINK REGISTER R9                              21060031
                                 13608+*                                                                  21090031


00A48E 9019 ED46            0902C 13610+DFREER   STM   R1,R9,SAVFPF       SAVE REGISTERS                 21150031
00A492 1812                       13611+         LR    R1,R2                                              21180031
00A494 5410 F9FA            09CE0 13612+         N     R1,MASK                                            21210031
00A498 1841                       13613+         LR    R4,R1                                              21240031
00A49A 8840 000A            0000A 13614+         SRL   R4,10                                              21270031
00A49E 5A40 E3D2            086B8 13615+         A     R4,APT             R4=@PTE                @DM12778 21300032
00A4A2 0921                       13616+         ISK   R2,R1              INSERT STORAGE-KEY INTO        21330031
00A4A4 4220 FA1D            09D03 13617+         STC   R2,STK             PT-ENTRY                       21360031
00A4A8 D401 4000 FA16 00000 09CFC 13618+         NC    0(2,R4),MASK2                                      21390031
00A4AE D300 4001 FA1D 00001 09D03 13619+         MVZ   1(1,R4),STK                                        21420031
00A4B4 9680 4000      00000       13620+         OI    0(R4),X'80'        SET H=1                        21450031
00A4B8 1B22                       13621+         SR    R2,R2              SET STORAGE-KEY TO 0,          21480031
00A4BA 0821                       13622+         SSK   R2,R1              SET R=0 AND C=0                21510031
00A4BC 1831                       13623+         LR    R3,R1                                              21540031
00A4BE 8830 0008            00008 13624+         SRL   R3,8               R3=PFT-OFFSET                  21570031
00A4C2 5860 07CC            007CC 13625+         L     R6,APFT                                            21600031
00A4C6 4173 6000            00000 13626+         LA    R7,0(R3,R6)        R7=@ OF PFT-ENTRY              21630031
00A4CA 9104 7001      00001       13627+         TM    1(R7),DRAPBIT      IF PAGE FRAME FAILING  @DM02349 21660031
00A4CE 4710 D20C      0A4F2       13628+         BO    NOFREER            STORAGE, BRANCH        @DM02349 21690031
00A4D2 D201 7004 FA18 00004 09CFE 13629+         MVC   4(2,R7),PNRM1      INSERT X'FFFF' FOR PAGE#       21720031
00A4D8 9200 7000      00000       13630+         MVI   0(R7),0            SET OFF SP,NF AND      @DA00586 21750031
00A4DC 941C 7001      00001       13631+         NI    1(R7),X'1F'-SP-NF  CLEAR TFIX CNTR        @DA00586 21780031
00A4E0 B20D 0000                  13632+         PTLB                                                     21810031
00A4E4 5870 ED32            09018 13633+         L     R7,Q00             INSERT PAGE AT THE             21840031
00A4E8 4590 F89A            09B80 13634+         BAL   R9,INSTOP          TOP OF Q00                     21870031
00A4EC 9819 ED46            0902C 13635+DFREER1  LM    R1,R9,SAVFPF       RESTORE REGISTERS      @DM02349 21870832
00A4F0 07F9                       13636+         BR    R9                 RETURN                         21872432

00A4F2 94FB 4001      00001       13638+NOFREER  NI    1(R4),X'FF'-INVP   RESET INVALID BIT      @DM02349 21874832
00A4F6 47F0 D206      0A4EC       13639+         B     DFREER1                                  @DM02349 21875632




                                 13641+*   SET BIT IN REENTRY-RATE TABLE RTAB                             22204032
                                 13642+*   R4 CONTAINS PAGE-NUMBER                                        22205032

00A4FA 9045 D472            0A758 13644+SRTABB   STM   R4,R5,SAVELL                                      22230031
00A4FE 8C40 0003            00003 13645+         SRDL  R4,3               PAGE#/8                        22260031
00A502 5A40 D42E            0A714 13646+         A     R4,ARTAB           R4=@ OF RTAB-BYTE              22290031
00A506 8850 001D            0001D 13647+         SRL   R5,29              R5=BIT#                        22320031
00A50A 4355 D424            0A70A 13648+         IC    R5,RTMASK(R5)                                      22350031
```

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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A50E 4450 D232            0A518 13649+         EX    R5,OIINSTR         SET RTAB-BIT ON                          22380031
00A512 9845 D472            0A758 13650+         LM    R4,R5,SAVELL                                                22410031
00A516 07F9                       13651+         BR    R9                 RETURN                                   22440031
00A518 9600 4000      00000       13652+OIINSTR  OI    0(R4),0                                                     22470031




                                  13654+*   TEST BIT IN REENTRY-RATE TABLE RTAB                                     22530031
                                  13655+*   IF ON,INCREASE REENTRY-RATE COUNTER RRCTR                               22560031
                                  13656+*   LACPTE CONTAINS PAGE-NUMBER                                             22590031




00A51C 4840 FA10            09CF6 13658+TRTABB   LH    R4,LACPTE                                                   22650031
00A520 8C40 0003            00003 13659+         SRDL  R4,3               R4=PAGE#/8                           22680031
00A524 5A40 D42E            0A714 13660+         A     R4,ARTAB           R4=@ OF RTAB-BYTE                        22710031
00A528 8850 001D            0001D 13661+         SRL   R5,29              R5=BIT#                                  22740031
00A52C 4355 D424            0A70A 13662+         IC    R5,RTMASK(R5)                                               22770031
00A530 4450 D260            0A546 13663+         EX    R5,TMINSTR         TEST RTAB-BIT                            22800031
00A534 4780 D25E      0A544       13664+         BZ    TRTABB1            RTAB-BIT IS OFF                          22830031
00A538 4840 D46E            0A754 13665+         LH    R4,RRCTR                                                    22860031
00A53C 4144 0001            00001 13666+         LA    R4,1(R4)           INCREASE RRCTR                           22890031
00A540 4040 D46E            0A754 13667+         STH   R4,RRCTR                                                    22920031
00A544 07F9                       13668+TRTABB1  BR    R9                 RETURN                                   22950031
00A546 9100 4000      00000       13669+TMINSTR  TM    0(R4),0                                                     22980031
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13671+*   COUNT PAGE-INS FOR DEACTIVATION/REACTIVATION                        23040031
                                 13672+*   ROUTINE DEACT IS CALLED,IF THERE WERE N PAGE-INS SINCE              23070031
                                 13673+*   LAST DEACTIVATION-MEASUREMENT                                       23100031


00A54A 4700 D28A            0A570 13675+CPGIN    BC    0,CPGIN2          FIRST TIME SWITCH                     23160031
00A54E B205 D442      0A728       13676+         STCK  TIMEA             READ START-TIME OF FIRST              23190031
                                  13677+*                                 DEACTIVATION-MEASUREM.INTERVAL        23220031
00A552 0739                       13678+         BCR   3,R9              TOD INVALID                @DF01345   23250031
00A554 5840 D42E            0A714 13679+         L     R4,ARTAB          INITIALIZE FOR FIRST INTERVAL         23280031
00A558 1864                       13680+         LR    R6,R4             SET ALL RTAB-BITS TO ZERO             23310031
00A55A 5850 D432            0A718 13681+         L     R5,LRTAB                                                23340031
00A55E 1B77                       13682+         SR    R7,R7                                                   23370031
00A560 0E46                       13683+         MVCL  R4,R6                                                   23400031
00A562 D701 D46E D46E 0A754 0A754 13684+         XC    RRCTR(2),RRCTR    SET RRCTR=0                           23430031
00A568 92F0 D265      0A54B       13685+         MVI   CPGIN+1,X'F0'                                           23580031
00A56C 47F0 D29E      0A584       13686+         B     CPGIN1                                                  23610031
00A570 D503 D45E D4DE 0A744 0A7C4 13687+CPGIN2   CLC   PIDCTR(4),NPI     PIDCTR=N ?                            23640031
00A576 4740 D29E      0A584       13688+         BL    CPGIN1            NO                    @D31AUHL        23670031
00A57A D703 D45E D45E 0A744 0A744 13689+         XC    PIDCTR(4),PIDCTR  SET PIDCTR=0                          23700031
00A580 4580 D2B0            0A596 13690+         BAL   R8,DEACT          DEACTIVATION-MEASUREMENT              23730031
00A584 9845 D45E            0A744 13691+CPGIN1   LM    R4,R5,PIDCTR                                            23760031
00A588 4144 0001            00001 13692+         LA    R4,1(R4)          INCREASE PAGE-IN COUNTERS             23790031
00A58C 4155 0001            00001 13693+         LA    R5,1(R5)                                                23820031
00A590 9045 D45E            0A744 13694+         STM   R4,R5,PIDCTR                                            23850031
00A594 07F9                       13695+         BR    R9                RETURN                                23880031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  13697+*   THIS ROUTINE IS CALLED WHENEVER THERE WERE N PAGE-INS              23940031
                                  13698+*   PAGING-ACTIVITY IS MEASURED                                        23970031
                                  13699+*   IF PAGING-ACTIVITY IS TOO HIGH,THE ROUTINE DEACTP IS               24000031
                                  13700+*   CALLED FOR DEACTIVATION OF ONE PARTITION                           24030031

00A596 9019 D472            0A758 13702+DEACT    STM   R1,R9,SAVELL                                @D32XDRP 24090032
00A59A B205 D446      0A72C       13703+         STCK  TIMEB            READ TOD-CLOCK                      24120031
00A59E 0738                       13704+         BCR   3,R8             TOD INVALID              @DF01345 24150031
00A5A0 9845 D442            0A728 13705+         LM    R4,R5,TIMEA                                         24450031
00A5A4 5050 D442            0A728 13706+         ST    R5,TIMEA         SET START-TIME FOR NEXT INTERV.     24480031
00A5A8 1B54                       13707+         SR    R5,R4            CALCULATE TIME-INTERVAL             24510031
00A5AA 4770 D2CC      0A5B2       13708+         BNZ   DEACT2           SINCE LAST DEACTIVATION-            24540031
00A5AE 4150 0001            00001 13709+         LA    R5,1             MEASUREMENT                         24570031
                            0A5B2 13710+DEACT2   EQU   *                                                   24600031
00A5B2 4050 D45A            0A740 13711+         STH   R5,TIMEDEF       SAVE TIME INTERVALL      @D32XDRP 24812032
00A5B6 5820 D4DE            0A7C4 13712+         L     R2,NPI           CALCULATE N/(TIMEB-TIMEA)           24840031
00A5BA 8E20 0020            00020 13713+         SRDA  R2,32                                               24870031
00A5BE 1D25                       13714+         DR    R2,R5                                               24900031
00A5C0 4700 D2E6            0A5CC 13715+DEACT4   BC    0,DEACT3         FIRST TIME SWITCH                   24930031
00A5C4 5030 D466            0A74C 13716+         ST    R3,EXPAVD        SET INITIAL VALUE FOR               24960031
00A5C8 92F0 D2DB      0A5C1       13717+         MVI   DEACT4+1,X'F0'   EXPONENTIAL AVERAGE                 24990031
00A5CC 5A30 D466            0A74C 13718+DEACT3   A     R3,EXPAVD        CALCULATE EXP.AVERAGE               25020031
00A5D0 8830 0001            00001 13719+         SRL   R3,1                                                25050031
00A5D4 5030 D466            0A74C 13720+         ST    R3,EXPAVD                                           25080031
00A5D8 4820 D46E            0A754 13721+         LH    R2,RRCTR           R2=REENTRY-RATE                  25200031
00A5DC 5840 D42E            0A714 13722+         L     R4,ARTAB           INITIALIZE FOR NEXT INTERVAL     25320031
00A5E0 1864                       13723+         LR    R6,R4              SET ALL RTAB-BITS TO ZERO        25350031
00A5E2 5850 D432            0A718 13724+         L     R5,LRTAB                                            25380031
00A5E6 1B77                       13725+         SR    R7,R7                                               25410031
00A5E8 0E46                       13726+         MVCL  R4,R6                                               25440031
00A5EA D701 D46E D46E 0A754 0A754 13727+         XC    RRCTR(2),RRCTR     SET RRCTR=0                      25470031
00A5F0 5530 D4E2            0A7C8 13728+         CL    R3,DCONST          IS DEFIXING NECESSARY ?  @D32XDRP 25473032
00A5F4 4740 D342      0A628       13729+         BL    DEACT7             NO, BRANCH               @D32XDRP 25476032
00A5F8 9680 08C4      008C4       13730+         OI    DEFIXSW,LLDEFIX   REQUEST DEFIX-ING FROM     @DM12789 26224032
                                  13731+*                                LOAD LEVELER             @DM12789 26226032
00A5FC D501 08C6 E3D6 008C6 086BC 13732+         CLC   LOWFXPTR,F0         PAGES FIXED BY FAST-TRANSL.  @DA08653 26226433
00A602 4780 D328      0A60E       13733+         BZ    DEACT6             NO, BRANCH               @DA08653 26226833
00A606 5890 077C            0077C 13734+         L     R9,ACCWT          LOAD BASE FOR CCW-TRANSL.  @DM12789 26228032
00A60A 4589 0F48            00F48 13735+         BAL   R8,DEFIXALL-CCWTADR(R9)  FREE PAGES KEPT BY  @DM12789 26230032
                                  13736+*                                  FAST CCW-TRANSL.         @DM12789 26232032
00A60E 5530 D4CE            0A7B4 13737+DEACT6   CL    R3,ACONST          TOO MANY PAGE-INS ?      @DM12789 26250032
00A612 4740 D33C      0A622       13738+         BL    DEACT5             NO                                  26280031
00A616 5520 D4DA            0A7C0 13739+         CL    R2,BCONST          REENTRY-RATE TOO HIGH ?             26310031
00A61A 4740 D33C      0A622       13740+         BL    DEACT5             NO                                  26340031
00A61E 4590 D4F6            0A7DC 13741+         BAL   R9,DEACTP          TRY TO DEACTIVATE A PARTITION       26370031
00A622 9819 D472            0A758 13742+DEACT5   LM    R1,R9,SAVELL                             @DM12789 26381032
00A626 07F8                       13743+         BR    R8                 RETURN                           26430031
00A628 D501 D45A D4D8 0A740 0A7BE 13744+DEACT7   CLC   TIMEDEF(L2),MINTIME+D2  DEFIX TO BE SET OFF  @DM12789 26554032
00A62E 47D0 D328      0A60E       13745+         BNH   DEACT6                  NO, BRANCH               @DM12789 26556032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A632 947F 08C4      008C4        13746+         NI    DEFIXSW,X'FF'-LLDEFIX  RESET DEFIX SWITCH FROM  @DM12789 26558032
                                   13747+*                                     LOAD LEVELER             @DM12789 26560032
00A636 47F0 D328      0A60E        13748+         B     DEACT6                                                    26580031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13750+*   THIS ROUTINE PUTS ALL SELECTION-POOL-PAGE-FRAMES OF A                26640031
                                 13751+*   DEACTIVATED PARTITION TO QUEUES Q00 OR Q01 RESP. DEPENDING ON        26670031
                                 13752+*   THE VALUE OF THE CHANGE-BITS AND RESETS THE REFERENCE-BITS           26700031
                                 13753+*   MOREOVER THE REACTIVATION-COUNT RC IS DETERMINED AND STORED INTO     26730031
                                 13754+*   THE TABLE RCFLD                                                      26760031
                                 13755+*   INPUT-PARAMETER: R5 CONTAINS THE PIK-VALUE                           26790031


00A63A 901A D4A2           0A788 13757+PGFR     STM   R1,R10,SAVELL10                          @DF00888 26850031
00A63E 1885                      13758+          LR    R8,R5             R8=PIK-VALUE                     26880031
00A640 1BAA                      13759+          SR    R10,R10           R10=REACT.-COUNT RC    @DF00888  26910031
00A642 5A50 07D4           007D4 13760+          A     R5,ABBOX                                          26940031
00A646 9812 5008           00008 13761+          LM    R1,R2,8(R5)       LOAD PARTITION-BOUNDARIES       26970031
00A64A 1B21                      13762+          SR    R2,R1                                             27000031
00A64C 8820 000B           0000B 13763+          SRL   R2,11             R2=# OF PT-ENTRIES              27030031
00A650 8810 000A           0000A 13764+          SRL   R1,10                                             27060031
00A654 5A10 E3D2           086B8 13765+          A     R1,APT            R1=@ OF FIRST PT-ENTRY @DM12778 27090032
00A658 5860 07CC           007CC 13766+          L     R6,APFT           R6=@ OF PFT                     27120031
00A65C 9104 1001      00001      13767+PGFR3     TM    1(R1),X'04'       PT-ENTRY INVALID ?              27150031
00A660 4710 D3B4      0A69A      13768+          BO    PGFR1             YES                             27180031
00A664 4831 0000           00000 13769+          LH    R3,0(R1)                                          27210031
00A668 8830 0001           00001 13770+          SRL   R3,1                                              27240031
00A66C 8930 0001           00001 13771+          SLL   R3,1              R3=OFFSET TO PFT                27270031
00A670 4173 6000           00000 13772+          LA    R7,0(R3,R6)       R7=@ OF PFT-ENTRY               27300031
00A674 9102 7001      00001      13773+          TM    1(R7),SP          ELEMENT OF SELECTION -POOL ?    27330031
00A678 4710 D3B4      0A69A      13774+          BO    PGFR1             NO                              27360031
00A67C 41AA 0001           00001 13775+          LA    R10,1(R10)        INCREASE RC            @DF00888 27390031
00A680 4590 F888           09B6E 13776+          BAL   R9,REMOVE         REMOVE FROM SELECTION-POOL      27420031
00A684 1843                      13777+          LR    R4,R3                                             27450031
00A686 8940 0008           00008 13778+          SLL   R4,8              R4=@ OF PAGE-FRAME              27480031
00A68A B213 4000      00000      13779+          RRB   0(R4)             RESET REFERENCE-BIT             27510031
00A68E 47A0 D3CA           0A6B0 13780+          BC    10,PGFR2          BRANCH,IF CHANGE-BIT OFF        27540031
00A692 5870 ED3E           09024 13781+          L     R7,Q01            INSERT AT TOP OF Q00 OR         27570031
00A696 4590 F89A           09B80 13782+PGFR4     BAL   R9,INSTOP         Q01 RESP.                       27600031
00A69A 4111 0002           00002 13783+PGFR1     LA    R1,2(R1)          GET NEXT PT-ENTRY               27630031
00A69E 4620 D376           0A65C 13784+          BCT   R2,PGFR3                                          27660031
00A6A2 8880 0003           00003 13785+          SRL   R8,3                                              27690031
00A6A6 40A8 D434           0A71A 13786+          STH   R10,RCFLD-2(R8)   STORE RC INTO RCFLD    @DF00888 27720031
00A6AA 981A D4A2           0A788 13787+          LM    R1,R10,SAVELL10                   @DF00888        27750031
00A6AE 07F9                      13788+          BR    R9                RETURN                          27780031
00A6B0 5870 ED32           09018 13789+PGFR2     L     R7,Q00                                            27810031
00A6B4 47F0 D3B0      0A696      13790+          B     PGFR4                                             27840031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13792+*   FIND NUMBER OF PAGE-FRAMES,WHICH BELONG TO THE SELECTION-POOL       27900031



00A6B8 9013 D496            0A77C 13794+CSPE     STM   R1,R3,SAVELL3                                          27960031
00A6BC 5810 07E4            007E4 13795+         L     R1,EOCADDR                                  @DM11453 27990031
00A6C0 4111 0001            00001 13796+         LA    R1,1(R1)                                               28020031
00A6C4 5830 0718            00718 13797+         L     R3,APPBEG          DO NOT INSPECT PAGE-FRAMES.. @DM12771 28030032
00A6C8 1B13                       13798+         SR    R1,R3              .. OCCUPIED BY SUPERVISOR    @DM12771 28040032
00A6CA 8810 000B            0000B 13799+         SRL   R1,11              R1=# OF PFT-ENTRIES                    28050031
00A6CE 1B22                       13800+         SR    R2,R2              R2=# OF SELECTION-POOL-ELEMENTS        28080031
00A6D0 8830 0008            00008 13801+         SRL   R3,8               ADJUST TO LENGTH OF PFT-SLOT @DM12771 28090032
00A6D4 5A30 07CC            007CC 13802+         A     R3,APFT            R3=@ OF PFT-ENTRY (SKIP SPV) @DM12771 28110032
00A6D8 9102 3001      00001       13803+CSPE2    TM    1(R3),SP           ELEMENT OF SELECT.-POOL ?              28140031
00A6DC 4710 D3FE      0A6E4       13804+         BO    CSPE1              NO                                     28170031
00A6E0 4122 0001            00001 13805+         LA    R2,1(R2)           INCREASE # OF SELECT.POOL ELEM.        28200031
00A6E4 4133 0008            00008 13806+CSPE1    LA    R3,8(R3)           GET NEXT PFT-ENTRY                     28230031
00A6E8 4610 D3F2            0A6D8 13807+         BCT   R1,CSPE2                                              28260031
00A6EC 9501 D4CA      0A7B0       13808+         CLI   IOIND,1            PAGE-I/O PENDING ?                     28290031
00A6F0 4770 D41A      0A700       13809+         BNE   CSPE3              NO                                     28320031
00A6F4 9107 E352      08638       13810+         TM    PGQU,X'07'         PAGE-I/O FOR A PAGE-FAULT ?            28350031
00A6F8 4740 D41A      0A700       13811+         BM    CSPE3              NO                                     28380031
00A6FC 4122 0001            00001 13812+         LA    R2,1(R2)           INCREASE # OF SELECT.POOL ELEM.        28410031
00A700 4020 D470            0A756 13813+CSPE3    STH   R2,NSPE            NSPE=# OF SELECT.-POOL-ELEM.           28440031
00A704 9813 D496            0A77C 13814+         LM    R1,R3,SAVELL3                                          28560031
00A708 07F9                       13815+         BR    R9                 RETURN                                 28590031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A70A 80                          13817+RTMASK   DC    X'80'                                                  29280031
00A70B 40                          13818+         DC    X'40'                                                  29310031
00A70C 20                          13819+         DC    X'20'                                                  29340031
00A70D 10                          13820+         DC    X'10'                                                  29370031
00A70E 08                          13821+         DC    X'08'                                                  29400031
00A70F 04                          13822+         DC    X'04'                                                  29430031
00A710 02                          13823+         DC    X'02'                                                  29460031
00A711 01                          13824+         DC    X'01'                                                  29490031



00A712 0000
00A714 0000ACFC                    13826+ARTAB    DC    A(RTAB)           @ OF RTAB                            29640031
00A718 000003FC                    13827+LRTAB    DC    A(1020)           LENGTH OF RTAB                       29670031



00A71C 0000000000000000            13829+RCFLD    DC    5H'0'             REACTIVATION-COUNTS                  29730031
00A726 0000
00A728 00000000                    13830+TIMEA    DC    F'0'              TOD-VALUES                           29760031
00A72C 0000000000000000            13831+TIMEB    DC    2F'0'                                                  29790031
00A734 00000000                    13832+TIME1    DC    F'0'                                                   29820031
00A738 0000000000000000            13833+TIME2    DC    2F'0'                                                  29850031
00A740 0000                        13834+TIMEDEF  DC    H'0'                                      @D32XDRP     29852032
00A742 0000
00A744 00000000                    13835+PIDCTR   DC    F'0'              PAGE-IN CTR FOR DEACT.INTERVAL       29970031
00A748 00000000                    13836+PIRCTR   DC    F'0'              PAGE-IN CTR FOR REACT.INTERVAL       30000031
00A74C 00000000                    13837+EXPAVD   DC    F'0'              EXP.AV.OF NPI/(TIMEB-TIMEA)          30030031
00A750 00000000                    13838+EXPAVE   DC    F'0'              EXP.AV.OF PIRCTR/(TIME2-TIME1)       30060031
00A754 0000                        13839+RRCTR    DC    H'0'              REENTRY-RATE CTR                     30090031
00A756 0000                        13840+NSPE     DC    H'0'              # OF SELECTION-POOL-ELEMENTS         30240031
00A758                             13841+SAVELL   DS    9F                                                     30270032
00A77C                             13842+SAVELL3  DS    3F                                                     30300031
00A788                             13843+SAVELL10 DS    10F                                                    30420031
00A7B0 00                          13844+IOIND    DC    X'00'             PAGE-I/O INDICATOR         @D31AUHL  30450031
00A7B1 00
00A7B2 0000                        13845+NACTVBP  DC    H'0'              NUMBER OF ACTIVE           @D31AUHL  30510031
                                   13846+*                                VIRTUAL BATCH PARTITIONS   @D31AUHL  30540031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  13848+*********************   LL-PARAMETERS   ****************************** 31020031


                                  13850+*        THE PARAMETERS ARE FILLED IN BY IPL                  @DM03324 31080031
                                  13851+*        THEY DEPEND ON THE MACHINE CONFIGURATION             @DM03324 31110031



00A7B4 00000000                   13853+ACONST   DC    F'0'              A = MAXIMUM NUMBER OF PAGE-INS        31170031
                                  13854+*                                     PER SECOND               @DM03324 31200031
00A7B8 00000000                   13855+CCONST   DC    F'0'              C = MINIMUM NUMBER OF PAGE-INS        31230031
                                  13856+*                                     PER SECOND               @DM03324 31260031
00A7BC 00000000                   13857+MINTIME  DC    F'0'              M = MINIMUM LENGTH OF        @DM03324 31290031
                                  13858+*                                     REACTIVATION-MEASUREMENT-         31320031
                                  13859+*                                     INTERVAL (IN SECONDS)             31350031
00A7C0 00000000                   13860+BCONST   DC    F'0'              B = MAXIM.REENTRY-RATE       @DM03324 31380031
00A7C4 00000000                   13861+NPI      DC    F'0'              N = NUMBER OF PAGE-INS DEFINING       31410031
                                  13862+*                                     DEACTIVATION-MEASUREMENT-         31440031
                                  13863+*                                     INTERVAL                          31470031
00A7C8 0000000A                   13864+DCONST   DC    F'10'            D = THRESHOLD FOR FAST-TRANS  @D32XDRP 31473032
                                  13865+*        TP BALANCING LLEV SAVEAREA                           @D31AUHL 31530031
00A7CC 00000000                   13866+SACONST  DC    F'0'             SAVE ACONST                   @D31AUHL 31560031
00A7D0 00000000                   13867+SBCONST  DC    F'0'             SAVE BCONST                   @D31AUHL 31590031
00A7D4 00000000                   13868+         DC    F'0'             AND NPI                       @D31AUHL 31620031
00A7D8 00000000                   13869+SDCONST  DC    F'0'             SAVE DCONST                   @DA08738 31640033
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 13871+*****************************************************************   32970031
                                 13872+*                                                                     33000031
                                 13873+*       THE DEACTIVATION ROUTINE TRIES TO DEACTIVATE THE VIRTUAL      33030031
                                 13874+*       PARTITION WHICH CURRENTLY HAS THE LOWEST DISPATCHING          33060031
                                 13875+*       PRIORITY.                                                     33090031
                                 13876+*       IF ONLY ONE VIRTUAL PARTITION IS ACTIVE OR IF ANY TASK        33120031
                                 13877+*       SEIZES THE SYSTEM THE DEACTIVATION REQUEST IS IGNORED.        33150031
                                 13878+*       IF THE PARTITION WITH THE LOWEST DISPATCHING PRIORITY         33180031
                                 13879+*       CURRENTLY OWNS THE B-TRANSIENT AREA OR IS INDICATED THAT IT   33210031
                                 13880+*       SHALL BE CANCELED THE DEACTIVATION ROUTINE TRIES TO DEACTI-    33240031
                                 13881+*       VATE THE VIRTUAL PARTITION WITH THE NEXT HIGHER DISPAT-       33270031
                                 13882+*       CHING PRIORITY.                                               33300031
                                 13883+*                                                                     33330031
                                 13884+*****************************************************************   33360031

00A7DC 48C0 07C6          007C6  13886+DEACTP  LH    RC,APNO           GET NO. OF ACT. VIRT. PART.  @DM03558 33420031
00A7E0 12CC                      13887+         LTR   RC,RC             ANY ACTIVE VIRTUAL PARTITION ?       33450031
00A7E2 0789                      13888+         BCR   Z,R9              NO, RETURN                           33480031
00A7E4 46C0 D504          0A7EA  13889+         BCT   RC,DEACTV         TRY TO DEACTIVATE VIRTUAL PARTITION  33510031
                                 13890+*                               IF MORE THAN ONE ACTIVE VITUAL       33540031
                                 13891+*                               PARTITION                            33570031
                          0A7E8  13892+DEACTR  EQU   *                  DEACTIVATION OF REAL PART. IN SOME   33870031
                                 13893+*                               SPECIAL CASES NOT YET IMPLEMENTED    33900031
00A7E8 07F9                      13894+         BR    R9                RETURN TO CALLER                     33930031
00A7EA 9500 0959          00959  13895+DEACTV  CLI   TRTSEIZE,ZERO     ANY TASK SEIZED THE SYSTEM ?         33960031
00A7EE 0789                      13896+         BCR   E,R9              YES, SKIP REQUEST FOR DEACTIVATION   34140031
00A7F0 4830 0724          00724  13897+         LH    R3,NPART          GET NO.OF PARTITIONS                 34200031
00A7F4 4140 093F          0093F  13898+         LA    R4,TRTLLBG        GET BEGIN OF TRT-BYTES FOR LL        34230031
00A7F8 4150 D9D1          0ACB7  13899+         LA    R5,WAITFLD+D1                                          34260031
00A7FC 4374 0000          00000  13900+NXTTRT   IC    R7,D0(R4)         GET TRT-BYTE                         34290031
00A800 4275 0000          00000  13901+         STC   R7,D0(R5)         STORE TRT-BYTE TO WAITFLD            34320031
00A804 4155 0001          00001  13902+         LA    R5,D1(R5)         GET ADDR.OF NEXT ENTRY IN WAITFLD    34350031
00A808 4144 0002          00002  13903+         LA    R4,D2(R4)         GET ADDR.OF NEXT TRT-BYTE            34380031
00A80C 4630 D516          0A7FC  13904+         BCT   R3,NXTTRT                                            34410031
00A810 9500 06BF    006BF        13905+         CLI   LTKEY+D1,ZERO     ANY PARTITION IN LTA ?       @DM11453 34440031
00A814 4780 D542    0A828        13906+         BE    NOLTA             NO, SKIP UPDATING OF DEACTAB         34470031
00A818 4870 06BE          006BE  13907+         LH    R7,LTKEY                                   @DM11453 34740031
00A81C 8870 0004          00004  13908+         SRL   R7,L4             GET LTK/16                           34770031
00A820 4187 D9D0          0ACB6  13909+         LA    R8,WAITFLD(R7)    GET ENTRY IN WAITFLD                 34800031
00A824 9200 8000    00000        13910+         MVI   D0(R8),ZERO       INDICATE THAT PARTITION USES LTA     34830031
00A828 5830 07AC          007AC  13911+NOLTA    L     R3,AMVCFLD        GET ADDR.OF MVCFLD TO GET CURRENT    34860031
                                 13912+*                               PRIORITY ORDER OF PARTITIONS         34890031
00A82C 9200 D9A4    0AC8A        13913+         MVI   DEACTFLD,ZERO                              @DF00872 34920031
00A830 F1FE D9A5 3001 0AC8B 00001 13914+         MVO   DEACTFLD+D1(LFLD),D1(LFLDX,R3) DIVIDE ENTRIES @DF00872 34950031
                                 13915+*                               OF MVCFLD BY 16          @DF00872 34980031
00A836 4140 D9A4          0AC8A  13916+         LA    R4,DEACTFLD       GET ADDR.OF FIRST BYTE OF DEACTFLD   35010031
00A83A 4154 000F          0000F  13917+         LA    R5,LFLD-L1(R4)    GET ADDR.OF LAST BYTE OF DEACTFLD    35040031
00A83E 4324 0000          00000  13918+EXCHPRI  IC    R2,D0(R4)         EXCHANGE                             35070031
00A842 4315 0000          00000  13919+         IC    R1,D0(R5)         SEQUENCE                             35100031
00A846 4225 0000          00000  13920+         STC   R2,D0(R5)         OF                                   35130031
00A84A 4214 0000          00000  13921+         STC   R1,D0(R4)         PRIORITIES                           35160031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A84E 4144 0001            00001 13922+         LA    R4,D1(R4)          GET NEXT BYTE                          35190031
00A852 0650                       13923+         BCTR  R5,R0              GET LAST BUT ONE BYTE                  35220031
00A854 1945                       13924+         CR    R4,R5              END OF EXCHANGE ?                      35250031
00A856 4740 D558      0A83E       13925+         BL    EXCHPRI            NO,CONTINUE                            35280031
00A85A 4110 D9A4            0AC8A 13926+         LA    R1,DEACTFLD                                               35310031
00A85E 4140 000F            0000F 13927+         LA    R4,LFLD-L1         GET LENGTH FOR TRT-INSTRUCTION         35340031
00A862 4860 07B4            007B4 13928+         LH    R6,TPBAL           GET TP BALANCING PAR.       @D31AUHL   35400031
00A866 1266                       13929+         LTR   R6,R6              TP BALANCING DESIRED        @D31AUHL   35430031
00A868 4780 D61A      0A900       13930+         BZ    CSCANDE            NO, DO REGULAR DEACT.       @D31AUHL   35460031
00A86C 9102 0739      00739       13931+         TM    SYSFLAG2,TPBIT     TPIN ACTIVE                 @DA11199   35465034
00A870 4780 D61A      0A900       13932+         BZ    CSCANDE            NO,DO REGULAR DEACT.        @DA11199   35470034
00A874 4120 D9D0            0ACB6 13933+         LA    R2,WAITFLD         R2=@ OF WAITFLD             @D31AUHL   35490031
00A878 1841                       13934+         LR    R4,R1              R4=@ OF DEACTFLD            @D31AUHL   35520031
00A87A 4154 000F            0000F 13935+         LA    R5,LFLD-L1(R4)     R5=@ LAST BYTE DEACTFLD     @D31AUHL   35550031

00A87E 1B88                       13937+         SR    R8,R8              CLEAR COUNTER               @D31AUHL   35610031
00A880 47F0 D5B0      0A896       13938+         B     SCNDEAC2           GO DEACTIVATE               @D31AUHL   35640031
00A884 9200 4000      00000       13939+SCNDEAC4 MVI   D0(R4),X'00'       PREVENT OWN DEACT           @D31AUHL   35670031
00A888 47F0 D5F0      0A8D6       13940+         B     SCNDEAC3           CONTINUE                    @D31AUHL   35700031
00A88C 1945                       13941+SCNDEAC1 CR    R4,R5              END OF DEACTFLD             @DM11565   35705031
00A88E 4780 D604      0A8EA       13942+         BE    SCNDEAC5           YES SECOND SCAN             @DM11565   35710031
00A892 4144 0001            00001 13943+         LA    R4,D1(R4)          NEXT BYTE DEACTFLD          @DM11565   35730031
00A896 9500 4000      00000       13944+SCNDEAC2 CLI   D0(R4),ZERO        ZERO                        @D31AUHL   35760031
00A89A 4780 D5A6      0A88C       13945+         BE    SCNDEAC1           YES,CONT. SCAN              @D31AUHL   35790031
00A89E D500 4000 0725 00000 00725 13946+         CLC   D0(L1,R4),NPART+D1 SUBTASK                     @D31AUHL   35820031
00A8A4 4720 D5A6      0A88C       13947+         BH    SCNDEAC1           YES,CONT. SCAN              @D31AUHL   35850031
00A8A8 1B77                       13948+         SR    R7,R7              CLEAR REG                   @D31AUHL   35880031
00A8AA 4374 0000            00000 13949+         IC    R7,D0(R4)          PIK/16 = INDEX WAITFLD      @D31AUHL   35910031
00A8AE 43A7 2000            00000 13950+         IC    RA,D0(R7,R2)       PART. ALREADY  DEACT.       @D31AUHL   35940031
00A8B2 12AA                       13951+         LTR   RA,RA              IF ZERO                     @D31AUHL   35970031
00A8B4 4780 D5F0      0A8D6       13952+         BZ    SCNDEAC3           YES,CONT. SCAN              @D31AUHL   36000031
00A8B8 48A0 06AA            006AA 13953+         LH    RA,YPIBTAB         POINT                       @D31AUHL   36030031
00A8BC 8970 0004            00004 13954+         SLL   R7,L4              TO                          @D31AUHL   36060031
00A8C0 1AA7                       13955+         AR    RA,R7              PIB                         @D31AUHL   36090031
00A8C2 9180 A004      00004       13956+         TM    PIBDATFL,TRAM      VIRTUAL MODE                @D31AUHL   36120031
00A8C6 4780 D5F0      0A8D6       13957+         BZ    SCNDEAC3           NO,CONT. SCAN               @D31AUHL   36150031
00A8CA 4970 08F4            008F4 13958+         CH    R7,TPPIK           TPIN TASK?                  @D31AUHL   36180031
00A8CE 4780 D59E      0A884       13959+         BE    SCNDEAC4           YES,KEEP                    @D31AUHL   36210031
00A8D2 4188 0001            00001 13960+         LA    R8,D1(R8)          INCREMENT COUNT             @D31AUHL   36240031

00A8D6 4660 D5A6            0A88C 13962+SCNDEAC3 BCT   R6,SCNDEAC1        SCAN ONLY BATCH PARTITIONS  @D31AUHL   36300031
00A8DA 1945                       13963+         CR    R4,R5              END OF DEACTFLD             @DM11565   36305031
00A8DC 4780 D604      0A8EA       13964+         BE    SCNDEAC5           YES, SECOND SCAN            @DM11565   36310031
00A8E0 4144 0001            00001 13965+         LA    R4,D1(R4)          NEXT BYTE DEACTFLD          @D31AUHL   36330031
00A8E4 1B54                       13966+         SR    R5,R4              REMAINING LENGT-1           @D31AUHL   36360031
00A8E6 4450 D912            0ABF8 13967+         EX    R5,ZERODFLD        ZERO OUT REMAINDER          @D31AUHL   36390031
                                  13968+*                                 OF DEACTFLD                 @D31AUHL   36420031
00A8EA 1288                       13969+SCNDEAC5 LTR   R8,R8               CHECK # OF ACTIVE           @DM11565   36450031
                                  13970+*                                 VIRTUAL BATCH PARTITIONS    @D31AUHL   36480031
00A8EC 4780 D612      0A8F8       13971+         BZ    SKIPBAL            NO PART. FOR DEACT.         @DA11199   36500034
00A8F0 4080 D4CC            0A7B2 13972+         STH   R8,NACTVBP         SAVE NUMBER OF PART. WHICH  @DA11199   36530034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  13973+*                                ARE CANDIDATE FOR DEACT.     @DA11199 36532034
00A8F4 47F0 D616      0A8FC       13974+         B     COMBAL                                          @DA11199 36534034
00A8F8 9602 073B      0073B       13975+SKIPBAL  OI    SYSFLAG4,KLLEDBIT INDICATE THE MAXIMUM NUMBER @DA11199 36536034
                                  13976+*                                OF PARTITIONS IS DEACTIVATED @DA11199 36538034
00A8FC 4140 000F            0000F 13977+COMBAL   LA    R4,LFLD-L1        LENGTH FOR TRT-INSTRUCTION   @DA11199 36538434
                            0A900 13978+CSCANDE  EQU   *                                              @D31AUHL 36630031
00A900 4440 D906            0ABEC 13979+SCANDE1  EX    R4,SCANTRT1       FIND VIRTUAL PARTITION FOR           36660031
                                  13980+*                                DEACTIVATION                         36690031
00A904 4780 D6D8            0A9BE 13981+         BC    NOFND,RETURNP     NO VIRTUAL PARTITION CAN BE          36720031
                                  13982+*                                DEACTIVATED,TRY TO DEACTIVATE        36750031
                                  13983+*                                REAL PARTITION                       36780031
00A908 1B55                       13984+         SR    R5,R5                                                  36810031
00A90A 4351 0000            00000 13985+         IC    R5,D0(R1)         GET PIK/16                           36840031
00A90E 8950 0004            00004 13986+         SLL   R5,L4             GET PIK                              36870031
00A912 48A0 06AA            006AA 13987+         LH    RA,YPIBTAB        GET                                  36900031
00A916 1AA5                       13988+         AR    RA,R5             PIB ENTRY                            36930031
00A918 4140 D9B2            0AC98 13989+         LA    R4,FLDEND-D2      GET REMAINING LENGTH         @DF00981 36960031
00A91C 1B41                       13990+         SR    R4,R1             FOR TRT-INSTRUCTION          @DF00981 36990031
00A91E 4111 0001            00001 13991+         LA    R1,D1(R1)         ADDR NEXT ENTRY IN DEACTFIELD@DF00981 37020031
00A922 4880 06CC            006CC 13992+         LH    R8,YPIB2TAB       PIB2 ADDRESS                 @DA01384 37170031
00A926 1A85                       13993+         AR    R8,R5             ADD PIB                      @DA01384 37200031
                                  13994+         DROP  RA                DROP STANDARD USING          @DA01384 37230031
                            00000 13995+         USING PIBADR,R8         ADDRESSABILITY PIB2          @DA01384 37260031
00A928 BF83 8000            00000 13996+         ICM   R8,M3,PIBCOMRA    GET COMREG ADDRESS           @DA01384 37290031
                            00000 13997+         USING PIBADR,RA         STANDARD USING               @DA01384 37320031
                            00000 13998+         USING COMREG,R8         ADDRESSABILITY COMREG        @DA01384 37350031
00A92C 9120 80A4      000A4       13999+         TM    POWFLG1,X'20'     IS THIS POWER/VS             @DA01384 37380031
00A930 4710 D61A      0A900       14000+         BO    CSCANDE           IF YES, CONTINUE SCAN        @DA01384 37410031
                                  14001+         DROP R8                                              @DA01384 37440031
                            00000 14002+         USING SVEARA,R8         RESET STANDARD USING         @DA01384 37470031
00A934 9580 A000      00000       14003+         CLI   PIBFLG,NOTACT     IS PARTITION ACTIVE          @DA01384 38550031
00A938 4780 D61A      0A900       14004+         BE    CSCANDE           NO,CONTINUE SCAN             @DA01384 38580031
00A93C 9110 A00F      0000F       14005+         TM    PIBFLG2,STOP      PART. IN STOPPED STATE       @DA01384 38610031
00A940 4710 D61A      0A900       14006+         BO    CSCANDE           YES,CONTINUE SCAN            @DA01384 38640031
00A944 9180 A004      00004       14007+         TM    PIBDATFL,TRAM     PART. IN VIRTUAL MODE        @DA01384 38670031
00A948 4780 D61A      0A900       14008+         BZ    CSCANDE           NO,CONTINUE SCAN             @DA01384 38700031
00A94C 4250 D6D3            0A9B9 14009+         STC   R5,STSCNLR5+3     SAVE PIK IN LA INSTR         @DA01384 38730031
00A950 4173 4001            00001 14010+         LA    R7,D1(R3,R4)      POINT TO PIK IN MVC FIELD    @DA01384 38760031
00A954 4860 0724            00724 14011+         LH    R6,NPART          GET HIGHEST PIK              @DA01384 38790031
00A958 8960 0004            00004 14012+         SLL   R6,4              IN SYSTEM                    @DA01384 38820031
00A95C 1B22                       14013+         SR    R2,R2             CLEAR                        @DA01384 38850031
00A95E 4320 079F            0079F 14014+         IC    R2,SUPPTR         ADDRESS SUPERVISOR           @DA01384 38880031
00A962 5A20 0790            00790 14015+         A     R2,ASYSBLK0       TASK BLOCK                   @DA01384 38910031
                            00000 14016+         USING SYSBLKS,R2        DECLARE BASE REG             @DA01384 38940031
00A966 188A                       14017+         LR    R8,RA             CHECK M.T. FIRST             @DA01384 38970031
                                  14018+         DROP  RA                DROP STANDARD PIB BASE       @DA01384 39000031
                            00000 14019+         USING PIBADR,R8         DECLARE TEMP. PIB BASE       @DA01384 39030031
00A968 9587 8000      00000       14020+STSCNLP1 CLI   PIBFLG,BOUND      PARTITION ACTIVE             @DY15391 39050034
00A96C 4780 D61A      0A900       14021+         BE    CSCANDE           NO, CONTINUE SCAN            @DY15391 39070034
00A970 9140 800C      0000C       14022+         TM    PIBASS,APPEN      BTAM TASK SELECTED           @DA01384 39150031
00A974 4710 D61A      0A900       14023+         BO    CSCANDE           YES,CONTINUE SCAN            @DA01384 39180031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A978 9500 8001      00001       14024+         CLI   PIBCNCL,ZERO       TASK IN CANCEL                @DA01384 39240031
00A97C 4770 D61A      0A900       14025+         BNE   CSCANDE            YES,CONTINUE SCAN             @DA01384 39270031
00A980 9180 0B79      00B79       14026+         TM    FCHGATE,CLOSE      ANY TASK IN FETCH             @DA01384 39300031
00A984 4780 D6AA      0A990       14027+         BZ    STSCNLP2           NO,SKIP FETCH TEST            @DA01384 39330031
00A988 BD51 2002            00002 14028+         CLM   R5,M1,SYSPIK       IS THIS THE TASK IN FETCH     @DA01384 39360031
                                  14029+         DROP  R2                 FINISHED WITH SYSBLOCKS       @DA01384 39390031
00A98C 4780 D61A      0A900       14030+         BE    CSCANDE            YES,CONTINUE SCAN             @DA01384 39420031
                            0A990 14031+STSCNLP2 EQU   *                                              @DA01384 39450031
                            00000 14032+         USING SVEARA,R8                                       @DA10295 39474034
00A990 8850 0001            00001 14033+         SRL   R5,1               ENTRYLENGTH IS 8 IN PFA TABLE@DA01384 39510031
00A994 4185 E3D6            086BC 14034+         LA    R8,PFATAB-8(R5)    POINT TO TASKS ENTRY          @DA01384 39540031
00A998 9180 8000      00000       14035+         TM    D0(R8),PHOFLG      P.F.REQUEST PASSED TO TASK    @DA01384 39570031
00A99C 4710 D61A      0A900       14036+         BO    CSCANDE            YES,DON'T DEACTIVATE          @DA01384 39600031
00A9A0 0670                       14037+         BCTR  R7,0               POINT IN FRONT OF PIK         @DA01384 39660031
00A9A2 4357 0000            00000 14038+         IC    R5,D0(R7)          GET NEXT TIK FROM MVC FIELD   @DA01384 39690031
00A9A6 1956                       14039+         CR    R5,R6              IS IT SUBTASK OF PART.        @DA01384 39720031
00A9A8 47D0 D6D0      0A9B6       14040+         BNH   STSCNLR5           NO,GO DEACTIVATE PART.        @DA01384 39750031
00A9AC 1885                       14041+         LR    R8,R5              CALCULATE SUBTASK PIB         @DA01384 39780031
00A9AE 4A80 06AA            006AA 14042+         AH    R8,YPIBTAB         ADDRESS                       @DA01384 39810031
00A9B2 47F0 D682      0A968       14043+         B     STSCNLP1           AND GO CHECK THIS SUBTASK     @DA01384 39840031
00A9B6 4150 0000            00000 14044+STSCNLR5 LA    R5,D0              RESTORE R5=MT PIK             @DA01384 39870031
                                  14045+*                          ***** INSTRUCTION MODIFICATION *****@DA01384 39900031
00A9BA 47F0 D6DC      0A9C2       14046+         B     DEVIRTP            GO DEACTIVATE PARTITION       @DA01384 39930031
                            00000 14047+         USING PIBADR,RA          DECLARE STANDARD PIB BASE     @DA01384 39990031
                            0A9BE 14048+RETURNP  EQU   *                                                    40050031
00A9BE 47F0 D502      0A7E8       14049+         B     DEACTR             TRY TO DEACTIVATE REAL PARTITION    40230031

                                  14051+*************************************************************       40440031
                                  14052+*                                                                   40470031
                                  14053+*       AN ACTIVE VIRTUAL PARTITION HAS BEEN FOUND FOR DEACTIVATION.40500031
                                  14054+*       EACH TASK BELONGING TO THIS PARTITION IS DEACTIVATED        40530031
                                  14055+*       SEPARATELY.                                                 40560031
                                  14056+*       IF A TASK HAS CONTRAL IN A GATED ROUTINE THE DEACTIVATION IS40590031
                                  14057+*       DELAYED UNTIL THE TASK LEAVES THE GATED ROUTINE.            40620031
                                  14058+*       IF A CCW-TRANSLATION REQUEST FOR A TASK IS PENDING THE CCW- 40650031
                                  14059+*       TRANSLATION IS RESETTED.                                    40680031
                                  14060+*       IF AN SVC 44 REQUEST IS PENDING FOR A TASK THE REQUEST IS   40710031
                                  14061+*       RESETTED.                                                   40740031
                                  14062+*       IF A PFIX REQUEST IS PENDING FOR A TASK THE PFIX REQUEST IS 40770031
                                  14063+*       RESETTED. IF A GETREAL REQUEST IS PENDING THE GETREAL RE-    40800031
                                  14064+*       QUEST IS STOPPED.                                           40830031
                                  14065+*                                                                   40860031
                                  14066+*************************************************************       40890031

00A9C2 40C0 07C6            007C6 14068+DEVIRTP  STH   RC,APNO             SAVE NEW NO. OF DEACTIVATED PART. 40950031
00A9C6 4380 0984            00984 14069+         IC    R8,NDEACTP         GET TOTAL NO.OF DEACTIVATED PART. 40980031
00A9CA 4188 0001            00001 14070+         LA    R8,D1(R8)          INCREASE NO. BY ONE               41010031
00A9CE 4280 0984            00984 14071+         STC   R8,NDEACTP         SAVE NEW NO.                      41040031
00A9D2 94FE DA15      0ACFB       14072+         NI    RTSW,XFF-RTDQU     DELETE RETURN INDICATOR           41070031
00A9D6 58D0 08AC            008AC 14073+         L     RD,APAGEOPT        SET BASE REG              @DL2982F 41130031
00A9DA 458D 0470            00470 14074+         BAL   R8,TERMPGIN-PAGEOPT(RD) DEACTIVATE PAGEIN    @DL2982F 41160031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00A9DE 18B9                      14075+         LR    RB,R9              SAVE RETURN ADDR.                        41220031
00A9E0 1885                      14076+         LR    R8,R5                                                       41520031
00A9E2 907B D4A2           0A788 14077+         STM   R7,RB,SAVELL10     SAVE REGISTERS R7-RB         @DA08664 41524033
00A9E6 5890 077C           0077C 14078+         L     R9,ACCWT           LOAD 1ST BASE REG FOR CCW-TR @D32XDRP 41527032
00A9EA 58B0 08C8           008C8 14079+         L     RB,ACCWT2          LOAD 2ND BASE REG FOR CCW-TR @DA08664 41529033
                           06B70 14080+         USING CCWTADR,R9,RB      ADDRESSABILITY               @DA08664 41529433
00A9EE 1878                      14081+         LR    R7,R8              ACCESS                       @D32XDRP 41530032
00A9F0 8870 0002           00002 14082+         SRL   R7,D2              PARTITION'S                  @D32XDRP 41533032
00A9F4 5A70 900C           06B7C 14083+         A     R7,RQBASE          REPLICA QUEUE                @DA08664 41536033
00A9F8 4580 9F76           07AE6 14084+         BAL   R8,DELREPA         DELETE ALL REPL.OF PART.     @DA08664 41539033
                           01000 14085+         USING SYSS00+X'1000',RB  SET STANDARD ADDRESSING      @DA08664 41541033
                           02EDA 14086+         USING INTRTN,R9          SET STANDARD ADDRESSING      @DA08664 41541433
00A9FC 987B D4A2           0A788 14087+         LM    R7,RB,SAVELL10     RESTORE REGISTERS R7-RB      @DA08664 41542033
00AA00 8880 0003           00003 14088+         SRL   R8,L3              GET PIK/8                                41550031
00AA04 4188 0057           00057 14089+         LA    R8,LLBNDBG-D2(R8)  GET BND CONDITION FOR THIS PART.         41580031
00AA08 1808                      14090+         LR    R0,R8              SAVE BND CONDITION                       41610031
00AA0A 4188 08E6           008E6 14091+         LA    R8,RETAB(R8)       GET ADDR.OF CORRESPONDING TRT-BYTE       41640031
00AA0E 9200 8000      00000      14092+         MVI   D0(R8),ZERO        INDICATE PARTITION TO BE LLBND           41670031
                                 14093+*                                                                          41730031
                                 14094+*        FIND OUT ALL TASKS CURRENTLY BELONGING TO DEACTIVATED             41760031
                                 14095+*        PARTITION.                                                        41790031
                                 14096+*                                                                          41820031
00AA12 9210 D9A4      0AC8A      14097+         MVI   DEACTFLD,NOMVCT    INITIALIZE                               41850031
00AA16 D20E D9A5 D9A4 0AC8B 0AC8A 14098+         MVC   DEACTFLD+D1(LFLD-L1),DEACTFLD DEACTFLD                      41880031
00AA1C 4880 0724           00724 14099+         LH    R8,NPART           GET HIGHEST                              41910031
00AA20 8980 0004           00004 14100+         SLL   R8,L4              PIK VALUE                                41940031
00AA24 1825                      14101+         LR    R2,R5                                                       41970031
00AA26 41C0 0001           00001 14102+         LA    RC,ONE             INITIALIZE SUBTASK COUNTER               42000031
00AA2A 4134 3001           00001 14103+         LA    R3,D1(R4,R3)       GET ADDR.OF PIK IN MVCFLD                42030031
00AA2E 47F0 D75A      0AA40      14104+         B     MVCDEACT           SKIP COMPARISON OF PIK WITH              42060031
                                 14105+*                                 HIGHEST PIK VALUE                        42090031
00AA32 4323 0000           00000 14106+MVCLOOP  IC    R2,D0(R3)          GET FORMER ENTRY FROM MVCFLD @DF00926 42120031
00AA36 1928                      14107+         CR    R2,R8              ENTRY GT HIGHEST PIK ?                   42150031
00AA38 47D0 D76C      0AA52      14108+         BNH   SCPGQU             NO,ENTRY BELONGS TO STRANGE PART.        42180031
00AA3C 41CC 0001           00001 14109+         LA    RC,D1(RC)          INCREASE SUBTASK COUNTER BY ONE          42210031
                           0AA40 14110+MVCDEACT EQU   *                                                          42240031
00AA40 8820 0004           00004 14111+         SRL   R2,L4              GET PIK/16 OR TIK/16                     42270031
00AA44 4112 D9A4           0AC8A 14112+         LA    R1,DEACTFLD(R2)    GET CORRECT ADDR.IN DEACTFLD             42300031
00AA48 9211 1000      00000      14113+         MVI   D0(R1),YESMVCT     INDICATE TASK TO BELONG TO               42330031
                                 14114+*                                 DEACTIVATED PARTITION                    42360031
00AA4C 0630                      14115+         BCTR  R3,R0              GET FORMER ENTRY IN MVCFLD   @DF00926 42390031
00AA4E 47F0 D74C      0AA32      14116+         B     MVCLOOP                                                     42420031
                           0AA52 14117+SCPGQU   EQU   *                                                          42450031
00AA52 189C                      14118+         LR    R9,RC              SAVE NO.OF TASKS BELONGING TO            42480031
                                 14119+*                                 DEACTIVATED PARTITION                    42510031
                                 14120+*                                                                          42570031
                                 14121+*        FIND OUT PGQU ENTRIES BELONGING TO DEACTIVATED PARTITION          42600031
                                 14122+*                                                                          42630031
                           0AA54 14123+PGLOOPX  EQU   *                                                 @DA00286 42660031
00AA54 4160 E352           08638 14124+         LA    R6,PGQU            GET BEGIN OF PGQU                        42690031
00AA58 1816                      14125+         LR    R1,R6                                                       42720031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00AA5A 5830 E48A            08770 14126+         L     R3,AEOPGQU          GET CURRENT END OF PGQU                42750031
00AA5E 1931                       14127+PGLOOP   CR    R3,R1               ANY MORE ENTRY IN PGQU ?               42780031
00AA60 47D0 D7B0      0AA96       14128+         BNH   FINLOOP             FINISH SCAN THRU PGQU        @DF00872  42840031
00AA64 4371 0000            00000 14129+         IC    R7,D0(R1)           GET PIK/TIK FROM PGQU                  42990031
00AA68 5470 F9FE            09CE4 14130+         N     R7,MASK1            CLEAR RIGHT HALFBYTE                   43020031
00AA6C 1887                       14131+         LR    R8,R7                                                      43080031
00AA6E 8880 0004            00004 14132+         SRL   R8,L4               GET PIK/16 OR TIK/16                   43110031
00AA72 4148 D9A4            0AC8A 14133+         LA    R4,DEACTFLD(R8)     GET ADDR.OF ENTRY IN DEACTFLD          43140031
00AA76 9510 4000      00000       14134+         CLI   D0(R4),NOMVCT       DOES PGQU-ENTRY BELONG TO    @DA02706  43170031
                                  14135+*                                  DEACTIVATED TASK ?           @DA02706  43200031
00AA7A 4770 D7A0      0AA86       14136+         BNE   STNOPG              YES,STORE NO.OF PGQU-ENTRY   @DA02706  43230031
                                  14137+*                                  INTO DEACTFLD                @DA02706  43260031
                            0AA7E 14138+CONTPG   EQU   *                                                        43290031
00AA7E 4111 0004            00004 14139+         LA    R1,D4(R1)           GET NEXT PGQU-ENTRY                    43500031
00AA82 47F0 D778      0AA5E       14140+         B     PGLOOP                                                     43530031
00AA86 1821                       14141+STNOPG   LR    R2,R1                                                      43590031
00AA88 1B26                       14142+         SR    R2,R6               GET DISPLACEMENT TO PGQU-ENTRY         43620031
00AA8A 8820 0002            00002 14143+         SRL   R2,L2               GET NO. OF PGQU-ENTRY                  43650031
00AA8E 4224 0000            00000 14144+         STC   R2,D0(R4)           STORE NO.OF PGQU-ENTRY TO ENTRY        43680031
                                  14145+*                                  IN DEACTFLD                            43710031
00AA92 4690 D798            0AA7E 14146+         BCT   R9,CONTPG           IF ANY OTHER TASK BELONGS TO           43740031
                                  14147+*                                  DEACTIVATED PARTITION CONTINUE         43770031
                                  14148+*                                  SCAN OF PGQU                           43800031
                            0AA96 14149+FINLOOP  EQU   *                                                        43830031
00AA96 4160 000F            0000F 14150+         LA    R6,LFLD-L1          GET LENGTH FOR TRT-INSTRUCTION         43860031
00AA9A 4110 D9A4            0AC8A 14151+         LA    R1,DEACTFLD                                                43890031
00AA9E 1B22                       14152+SCANDE2  SR    R2,R2                                                      43920031
00AAA0 4460 D90C            0ABF2 14153+         EX    R6,SCANTRT2         FIND TASK FOR DEACTIVATION             43950031
00AAA4 1871                       14154+         LR    R7,R1               CALCULATE                              43980031
00AAA6 5B70 D9B6            0AC9C 14155+         S     R7,ADEACT           TIK OR PIK FROM                        44010031
00AAAA 8970 0004            00004 14156+         SLL   R7,L4               LOCATION IN DEACTFLD                   44040031
00AAAE 47F2 D998      0AC7E       14157+         B     BCTAB(R2)           BRANCH TO CORRECT ROUTINE              44070031
                            0AAB2 14158+NOPGQUT  EQU   *                                      @DF00872  44130031
00AAB2 1B22                       14159+         SR    R2,R2               INDICATE:NO ENTRY IN PGQU    @DF00872  44250031
00AAB4 47F0 D7DE      0AAC4       14160+         B     DEACTT              DEACTIVATE TASK                        44280031
                            0AAB8 14161+PGQUT    EQU   *                                      @DF00872  44310031
00AAB8 4321 0000            00000 14162+         IC    R2,D0(R1)           GET NO.OF PGQU-ENTRY         @DF00872  44370031
00AABC 8920 0002            00002 14163+         SLL   R2,L2               GET DISPLACEMENT TO PGQU-ENTRY         44400031
00AAC0 4122 E352            08638 14164+         LA    R2,PGQU(R2)         GET ADDR.OF PGQU-ENTRY                 44430031
                                  14165+*                                                                        44580031
                                  14166+*        THE FOLLOWING ROUTINES CHECK THE STATUS OF THE TASKS            44610031
                                  14167+*        BELONGING TO THE DEACTIVATED PARTITION                          44640031
                                  14168+*                                                                        44670031
00AAC4 48A0 06AA            006AA 14169+DEACTT   LH    RA,YPIBTAB          GET                                    44700031
00AAC8 1AA7                       14170+         AR    RA,R7               PIB-ENTRY                              44730031
00AACA 5020 D9BA            0ACA0 14171+         ST    R2,APGQUE           SAVE ADDR.OF PGQU-ENTRY                44760031

00AACE 9103 A004      00004       14173+         TM    PIBDATFL,CINITSVC+CSVRET CONTROL IN GATED ROUTINE ?          44820031
00AAD2 4740 D826      0AB0C       14174+         BM    DEACTT4             NO,HANDLE REENTRENT ROUTINE            44850031
00AAD6 4780 D7FC      0AAE2       14175+         BZ    DEACTT2             NO,USER-SA WILL BE REFERENCED NEXT     44880031
                                  14176+* CONTINUE WITH HANDLING OF GATED ROUTINE                                44910031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00AADA 9610 A004      00004       14177+DEACTCD  OI    PIBDATFL,CDEACT    SET INDICATOR FOR DELAY OF            44940031
                                    14178+*                                 DEACTIVATION                          44970031
00AADE 47F0 D8DA      0ABC0       14179+         B     FINDEACT           TERMINATE DEACTIVATION OF THIS TASK   45210031

00AAE2 1B33                       14181+DEACTT2  SR    R3,R3                                                    45270031
00AAE4 1923                       14182+         CR    R2,R3              ENTRY IN PGQU ?                       45300031
00AAE6 4780 D81A      0AB00       14183+         BE    DEACTT6            NO,CHECK FOR NEXT CONDITION           45330031
00AAEA 9507 2003      00003       14184+         CLI   D3(R2),SUPVR        REQUEST FROM SUPVR TASK ?             45360031
00AAEE 4770 D812      0AAF8       14185+         BNE   DEACTDL            NO,DELETE ENTRY AND DEACTIV.TASK      45390031
00AAF2 1842                       14186+         LR    R4,R2              SET POINTER FOR RESFCH       @DM05580 45420031
00AAF4 4580 ED78            0905E 14187+         BAL   R8,RESFCH          RESET SUPVR TASK                      45450031
00AAF8 4540 D8F8            0ABDE 14188+DEACTDL  BAL   R4,DELPGQU         DELETE ENTRY FROM PGQU                45480031
00AAFC 47F0 D8C0      0ABA6       14189+         B     DEACTLL            DEACTIVATE TASK                       45510031

00AB00 9583 A000      00000       14191+DEACTT6  CLI   PIBFLG,READY       IS TASK READY TO RUN ?                45570031
00AB04 4780 D8C0      0ABA6       14192+         BE    DEACTLL            YES,DEACTIVATE TASK                   45600031
00AB08 47F0 D7F4      0AADA       14193+         B     DEACTCD            NO,DELAY DEACTIVATION                 45630031

00AB0C 5890 077C            0077C 14195+DEACTT4  L     R9,ACCWT           LOAD BASE REG.FOR CCW-TRANSLATION     45690031
00AB10 4589 0EC8            00EC8 14196+         BAL   R8,CCWDEACT-CCWTADR(R9) TRY TO RESET CCW-TRANSLATION     45720031
00AB14 47F0 D8B2      0AB98       14197+         B     DEACTT5            CCW-TRANSLATION HAS BEEN RESETTED     45750031
00AB18 90BF E396            0867C 14198+         STM   RB,RF,PFSA                                               45810031
00AB1C 58B0 0844            00844 14199+         L     RB,HEX1000         SET LOW CORE BASE            @D34RDFG 45840034
                            01000 14200+         USING SYSS00+X'1000',RB                           @D34RDFG 45860034
00AB20 4580 B488            01488 14201+         BAL   R8,SVDEACT         TRY TO RESET SVC 44                   45900031
                                  14202+         DROP  RB                                          @D34RDFG 45930034
00AB24 47F0 D8B2      0AB98       14203+         B     DEACTT5            SVC 44 HAS BEEN RESETTED              45990031

00AB28 5840 E486            0876C 14205+         L     R4,AFIXWTAB                                              46080031
00AB2C BD71 4000            00000 14206+         CLM   R7,M1,D0(R4)       GETREAL REQUEST PENDING ?             46110031
00AB30 4770 D856      0AB3C       14207+         BNE   DEACTPF            NO,CHECK FOR PFIX REQUEST PENDING     46170031
00AB34 4180 D884            0AB6A 14208+         LA    R8,DEACTGTR                                              46320031
00AB38 47F0 D86E      0AB54       14209+         B     DEACTXX                                                  46350031
00AB3C 1835                       14210+DEACTPF  LR    R3,R5                                                    46410031
00AB3E 8830 0002            00002 14211+         SRL   R3,L2              GET PIK/4                             46440031
00AB42 1A43                       14212+         AR    R4,R3              GET ENTRY IN FIXWTAB                  46470031
00AB44 BD71 4000            00000 14213+         CLM   R7,M1,D0(R4)       PFIX REQUEST PENDING ?                46500031
00AB48 4770 D7F4      0AADA       14214+         BNE   DEACTCD            NO,DEACTIVATE TASK           @DM03470 46530031
00AB4C 9610 A004      00004       14215+         OI    PIBDATFL,CDEACT    SET INDICATOR FOR DELAY OF            46560031
                                    14216+*                                 DEACTIVATION                          46590031
00AB50 4180 D88C            0AB72 14217+         LA    R8,DEACTPFR                                              46620031
00AB54 1B33                       14218+DEACTXX  SR    R3,R3                                                    46680031
00AB56 5930 D9BA            0ACA0 14219+         C     R3,APGQUE          ENTRY IN PGQU ?                       46710031
00AB5A 4770 D894      0AB7A       14220+         BNE   DEQURQ             YES,DELETE ENTRY                      46740031
00AB5E 9587 A000      00000       14221+         CLI   PIBFLG,BOUND       TASK WAITING FOR RESOURCE ?           46770031
00AB62 0788                       14222+         BCR   E,R8               YES,RESET ROUTINE                     46800031
00AB64 4188 0004            00004 14223+         LA    R8,D4(R8)          NO,DON'T RESET                        46830031
00AB68 07F8                       14224+         BR    R8                 ROUTINE                               46860031
00AB6A 4580 E702            089E8 14225+DEACTGTR BAL   R8,RESGETR         RESET GETREAL                         46890031
00AB6E 47F0 D8C0      0ABA6       14226+         B     DEACTLL            DEACTIVATE TASK                       46920031
00AB72 4580 F53A            09820 14227+DEACTPFR BAL   R8,RESPFIX         RESET PFIX                            46980031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00AB76 47F0 D8DA      0ABC0       14228+         B     FINDEACT            DELAY DEACTIVATION                    47010031
                            0AB7A 14229+DEQURQ   EQU   *                                                         47070031
00AB7A 5820 D9BA            0ACA0 14230+         L     R2,APGQUE                                                 47130031
00AB7E 9107 2000      00000       14231+         TM    D0(R2),PAGEFT       PAGE FAULT REQUEST ?                  47160031
00AB82 4780 D8DA      0ABC0       14232+         BZ    FINDEACT            YES,TERMINATE DEACTIVATION            47190031
00AB86 5080 D8AE            0AB94 14233+         ST    R8,DEQURQSV         SAVE LINKREG                @DA01643  47250031
00AB8A 4540 D8F8            0ABDE 14234+         BAL   R4,DELPGQU          DELETE ENTRY FROM PGQU                47280031
00AB8E 5880 D8AE            0AB94 14235+         L     R8,DEQURQSV         RESTORE LINKREG             @DA01643  47310031
00AB92 07F8                       14236+         BR    R8                  RESET ROUTINES                        47340031
00AB94 00000000                   14237+DEQURQSV DC    F'0'                SAVE LINKREG                @DA01643  47370031

                            0AB98 14239+DEACTT5  EQU   *                                                         47430031
00AB98 1B33                       14240+         SR    R3,R3                                                     47700031
00AB9A 5930 D9BA            0ACA0 14241+         C     R3,APGQUE           ENTRY IN PGQU ?                       47730031
00AB9E 4780 D8C0      0ABA6       14242+         BE    DEACTLL             NO, DEACTIVATE TASK                   47760031
00ABA2 4540 D8F8            0ABDE 14243+         BAL   R4,DELPGQU          DELETE PGQU-ENTRY                     47790031

00ABA6 4200 A000            00000 14245+DEACTLL  STC   R0,PIBFLG           SET TASK TO LLBND                     47850031
00ABAA 4840 07B4            007B4 14246+         LH    R4,TPBAL            GET TP BALANCING PAR.       @D31AUHL  47910031
00ABAE 1244                       14247+         LTR   R4,R4               BALANCING DESIRED           @D31AUHL  47940031
00ABB0 4780 D8DA      0ABC0       14248+         BZ    FINDEACT            NO,IGNORE                   @D31AUHL  47970031
00ABB4 4830 D4CC            0A7B2 14249+         LH    R3,NACTVBP          # OF DEACT. PART            @D31AUHL  48000031
00ABB8 4630 D8DA            0ABC0 14250+         BCT   R3,FINDEACT         DECREMENT,NOT ALL DONE      @D31AUHL  48030031
                                  14251+*        DEACTIVATION COMPLETE:                                @D31AUHL  48060031
                                  14252+*        REQUEST KILL-RESET                                    @D31AUHL  48090031
00ABBC 9602 073B      0073B       14253+DEACTLL1 OI    SYSFLAG4,KLLEDBIT   SET INDICATOR             @DM11512  48120031
                            0ABC0 14254+FINDEACT EQU   *                                                         48180031
00ABC0 46C0 D8E2            0ABC8 14255+         BCT   RC,SCANNT           SCAN FOR NEXT TASK                    48240031
00ABC4 47F0 D8EA      0ABD0       14256+         B     FINSCAN             NO MORE TASKS TO DEACTIVATE           48270031
                            0ABC8 14257+SCANNT   EQU   *                                             @DA00286  48300031
00ABC8 9210 1000      00000       14258+         MVI   0(R1),NOMVCT        INDICATE TASK PROCESSED     @DA00286  48330031
00ABCC 47F0 D76E      0AA54       14259+         B     PGLOOPX             GO REBUILD DEACTFLD         @DA00286  48360031

                            0ABD0 14261+FINSCAN  EQU   *                                                         48420031
00ABD0 4590 D354            0A63A 14262+         BAL   R9,PGFR             ACCOUNT PAGE FRAMES OF DEACTIVATED    48480031
                                  14263+*                                  PARTITION AND REARRANGE PAGE          48510031
                                  14264+*                                  FRAMES TO Q00 AND Q01 QUEUES          48540031
00ABD4 9101 DA15      0ACFB       14265+         TM    RTSW,RTDQU          RETURN TO DEQU ROUTINE NESSECARY ?    48570031
00ABD8 078B                       14266+         BCR   Z,RB                NO,RETURN TO REQUESTOR                48600031
00ABDA 47F0 F962      09C48       14267+         B     DEQUXE              ELSE BRANCH TO DEQU                   48630031
00ABDE 5880 D9BA            0ACA0 14268+DELPGQU  L     R8,APGQUE           PREPARE PARAMETER FOR DELETE RTN.     48660031
00ABE2 4560 EB8A            08E70 14269+         BAL   R6,DELENTR          DELETE ENTRY FROM PGQU                48690031
00ABE6 9601 DA15      0ACFB       14270+         OI    RTSW,RTDQU          INDICATE RETURN TO DEQU ROUTINE       48720031
00ABEA 07F4                       14271+         BR    R4                                                        48750031
00ABEC DD00 1000 D9D0 00000 0ACB6 14272+SCANTRT1 TRT   D0(L1,R1),WAITFLD                                          48780031
00ABF2 DD00 1000 D9BE 00000 0ACA4 14273+SCANTRT2 TRT   D0(L1,R1),TRTMVC                                          48840031
00ABF8 D700 4000 4000 00000 00000 14274+ZERODFLD XC    D0(L1,R4),D0(R4)    EXECUTED INSTRUCTION        @D31AUHL  48930031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  14276+*****************************************************************   49020031
                                  14277+*                                                                       49050031
                                  14278+*        THE REACTIVATION ROUTINE TRIES TO REACTIVATE THAT DEACTI-       49080031
                                  14279+*        VATED PARTITION, WHICH HAS CURRENTLY THE HIGHEST DISPATCHING    49110031
                                  14280+*        PRIORITY.                                                      49140031
                                  14281+*        IN CASE THE REACTIVATION COUNTER BELONGING TO THIS PARTITION    49170031
                                  14282+*        IS GREATER THAN THE  NUMBER OF UNFIXED PAGE FRAMES THE         49200031
                                  14283+*        REACTIVATION REQUEST IS IGNORED.                               49230031
                                  14284+*                                                                       49260031
                                  14285+*****************************************************************   49290031

                           0ABFE 14287+REACTPUC EQU   *                 UNCOND. REACTIVATION          @DF00881 49350031
00ABFE 4180 D974                  0AC5A 14288+         LA    R8,RPOSTP          DON'T CHECK REACT. COUNTER   @DF00881 49470031
00AC02 47F0 D924       0AC0A      14289+         B     REACTP                                          @DF00881 49500031
                           0AC06 14290+REACTPC  EQU   *                 CONDITIONAL REACTIVATION      @DF00881 49530031
00AC06 4180 D96A                  0AC50 14291+         LA    R8,CHECKRC         CHECK REACTIVATION COUNTER   @DF00881 49560031
00AC0A 4830 0724                  00724 14292+REACTP   LH    R3,NPART           GET NO.OF PARTITIONS                    49590031
00AC0E 4140 093F                  0093F 14293+         LA    R4,TRTLLBG         GET BEGIN OF TRT-BYTES FOR LL           49620031
00AC12 4150 D9D1                  0ACB7 14294+         LA    R5,WAITFLD+D1                                              49650031
00AC16 4374 0000                  00000 14295+NEXTTRT  IC    R7,D0(R4)          GET TRT-BYTE                            49680031
00AC1A 4275 0000                  00000 14296+         STC   R7,D0(R5)          STORE TRT-BYTE TO WAITFLD               49710031
00AC1E 4155 0001                  00001 14297+         LA    R5,D1(R5)          GET ADDR.OF NEXT ENTRY IN WAITFLD       49740031
00AC22 4144 0002                  00002 14298+         LA    R4,D2(R4)          GET ADDR.OF NEXT TRT-BYTE               49770031
00AC26 4630 D930                  0AC16 14299+         BCT   R3,NEXTTRT                                               49800031
00AC2A D704 D9D1 D9E0 0ACB7 0ACC6 14300+         XC    WAITFLD+D1(LFLDP),INVERSE BUILD WAITFLD IN THAT WAY      49830031
                                  14301+*                                  THAT ENTRIES BELONGING TO ACTIVE        49860031
                                  14302+*                                  PART.HAVE THE VALUE ZERO AND            49890031
                                  14303+*                                  ENTRIES BELONGING TO DEACTIVATED        49920031
                                  14304+*                                  PART.HAVE A VALUE NOT EQ ZERO           49950031
00AC30 5830 07AC                  007AC 14305+         L     R3,AMVCFLD         GET ADDR.OF MVCFLD TO GET CURRENT       49980031
                                  14306+*                                  PRIORITY ORDER OF PARTITIONS            50010031
00AC34 9200 D9A4       0AC8A      14307+         MVI   DEACTFLD,ZERO                                  @DF00872 50040031
00AC38 F1FE D9A5 3001  0AC8B 00001 14308+         MVO   DEACTFLD+D1(LFLD),D1(LFLDX,R3) DIVIDE ALL      @DF00872 50070031
                                  14309+*                                  ENTRIES OF MVCFLD BY 16     @DF00872 50100031
00AC3E DD0F D9A4 D9D0  0AC8A 0ACB6 14310+         TRT   DEACTFLD(LFLD),WAITFLD FIND PARTITION WITH HIGHEST      50130031
                                  14311+*                                  PRIORITY FOR REACTIVATION               50160031
00AC44 1B22                       14312+         SR    R2,R2                                                      50190031
00AC46 4321 0000                  00000 14313+         IC    R2,D0(R1)          GET PIK/16                              50220031
00AC4A 1812                       14314+         LR    R1,R2                                                      50250031
00AC4C 1A11                       14315+         AR    R1,R1              GET PIK/8                               50280031
00AC4E 07F8                       14316+         BR    R8                                              @DF00881 50310031
00AC50 4901 D434                  0A71A 14317+CHECKRC  CH    R0,RCFLDP(R1)      COMPARE REACT. COUNTER WITH  @DF00881 50340031
                                  14318+*                                  NO.OF UNFIXED PAGE FRAMES               50370031
00AC54 47B0 D974       0AC5A      14319+         BNL   RPOSTPX            NO.OF UNFIXED PAGE FRAMES IS @DF00881 50400031
                                  14320+*                                  EQ OR GT REACTIVATION CNTER  @DF00881 50430031
                                  14321+*                                  REACTIVATE PARTITION                    50460031
00AC58 07F9                       14322+         BR    R9                 RETURN TO ALLBOUND          @DM03306 50760031
                           0AC5A 14323+RPOSTPX  EQU   *                                               @DF00881 50790031
00AC5A 4870 07C6                  007C6 14324+RPOSTP   LH    R7,APNO            GET NO.OF ACTIVE VIRTUAL PARTITIONS     50970031
00AC5E 4177 0001                  00001 14325+         LA    R7,D1(R7)          INCREASE NO.BY ONE                      51000031
00AC62 4070 07C6                  007C6 14326+         STH   R7,APNO            SAVE NEW NO.                            51030031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00AC66 4370 0984            00984 14327+         IC    R7,NDEACTP         GET TOTAL NO. OF DEACTIVATED PART.    51060031
00AC6A 0670                       14328+         BCTR  R7,R0              DECREASE NO.BY ONE                    51090031
00AC6C 4270 0984            00984 14329+         STC   R7,NDEACTP         SAVE NEW NO.                          51120031
00AC70 4171 0057            00057 14330+         LA    R7,LLBNDBG-D2(R1)  GET BND CONDITION FOR THIS PART.      51150031
00AC74 4177 08E6            008E6 14331+         LA    R7,RETAB(R7)       GET ADDR.OF CORRESPONDING TRT-BYTE    51180031
00AC78 9283 7000      00000       14332+         MVI   D0(R7),READY       ACTIVATE PARTITION                    51210031
00AC7C 94FD 073B      0073B       14333+         NI    SYSFLAG4,XFF-KLLEDBIT  OPEN DEACTIVATION        @D31AUHL 51270031
00AC80 07F6                       14334+         BR    R6                 BRANCH TO EXIT ROUTINE                51630031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  14336+*************************************************************   51690031
                                  14337+*                                                                51720031
                                  14338+*        TABLES AND CONSTANTS FOR DEACTIVATION/REACTIVATION      51750031
                                  14339+*        OF PARTITIONS                                           51780031
                                  14340+*                                                                51810031
                                  14341+*************************************************************   51840031

00AC82 47F0 D7D2      0AAB8       14343+BCTABX   B     PGQUT              PGQU-ENTRY FOR THIS TASK        51930031
00AC86 47F0 D7CC      0AAB2       14344+         B     NOPGQUT            NO PGQU-ENTRY FOR THIS TASK     51960031
                            0AC7E 14345+BCTAB    EQU   BCTABX-4                                           51990031

00AC8A 00                         14347+DEACTFLD DC    X'00'                                             52110031
00AC8B 0000000000                 14348+         DC    5X'00'             PARTITIONS                     52140031
00AC90 0000000000000000           14349+         DC    10X'00'            SUBTASKS                @DF00872 52200031
00AC9A 00                         14350+FLDEND   DC    X'00'                                             52260031
                            00010 14351+LFLD     EQU   FLDEND-DEACTFLD    LENGTH OF MVCFLD                52290031
                            0000F 14352+LFLDX    EQU   LFLD-1                                     @DF00872 52320031
00AC9B 00
00AC9C 0000AC8A                   14353+ADEACT   DC    A(DEACTFLD)                                       52380031
00ACA0 00000000                   14354+APGQUE   DC    F'0'                                              52440031

00ACA4 04                         14356+TRTMVC   DC    X'04'              PGQU-ENTRY AVAILABLE            52530031
00ACA5 0404040404                 14357+         DC    5X'04'                                            52560031
00ACAA 0404040404040404           14358+         DC    10X'04'                                           52590031
00ACB4 00                         14359+         DC    X'00'              TASK DOES NOT BELONG TO PARTITION 52620031
00ACB5 08                         14360+         DC    X'08'              TASK BELONGS TO PARTITION BUT NO  52650031
                                  14361+*                                 PGQU-ENTRY AVAILABLE            52680031

00ACB6 00                         14363+WAITFLD  DC    X'00'                                             52770031
00ACB7 0000000000                 14364+         DC    5X'00'             PARTITIONS                     52800031
00ACBC 0000000000000000           14365+         DC    10X'00'            SUBTASKS                       52860031

00ACC6 8383838383                 14367+INVERSE  DC    5X'83'                                            52950031

00ACCB FF00FF0000000000           14369+TRTDVX   DC    X'FF00FF0000000000'                      @DM02327 53010031
00ACD3 0000000000000000           14370+         DC    8X'00'                                   @DM02327 53040031
00ACDB FF00000000000000           14371+         DC    X'FF00000000000000'                      @DM02327 53070031
00ACE3 0000000000000000           14372+         DC    8X'00'                                   @DM02327 53100031
00ACEB FFFFFFFF000000FF           14373+         DC    X'FFFFFFFF000000FF'                      @DM02327 53130031
00ACF3 FFFFFFFFFF00FF00           14374+         DC    X'FFFFFFFFFF00FF00'                      @DA09751 53140034

00ACFB 00                         14376+RTSW     DC    X'00'              RETURN INDICATOR                53220031
                            00007 14377+PAGEFT   EQU   X'07'              PAGE FAULT IN PGQU              53340031
                            000F0 14378+CLPSE    EQU   X'F0'              PSE-GATE IS CLOSED              53370031
                            00008 14379+NOFND    EQU   8                  CONDITION WHEN NO VIRTUAL PARTITION 53400031
                                  14380+*                                 HAS BEEN FOUND FOR DEACTIVATION 53430031
                            00010 14381+NOMVCT   EQU   LFLD               INDICATOR THAT PIK/TIK DOES NOT 53490031
                                  14382+*                                 BELONG TO DEACTIVATED PARTITION 53520031
                            00011 14383+YESMVCT  EQU   LFLD+1             INDICATOR THAT PIK/TIK BELONGS TO 53550031
                                  14384+*                                 PARTITION BUT HAS NO ENTRY IN   53580031
                                  14385+*                                 PGQU                            53610031
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00001 14386+RTDQU    EQU   X'01'              INDICATE RETURN TO DEQU                53670031
                          00005 14387+LFLDP    EQU   5                                                           53700031
                          0A71A 14388+RCFLDP   EQU   RCFLD-2                                                     53730031
                          0AC1B 14389+TRTDV    EQU   TRTDVX-X'B0'                                  @DM02327 53760031
00ACFC 0000000000000000       14390+RTAB     DC    1020X'00'          REENTRY-RATE-TABLE RTAB      @DM16061 53781034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 14392+         DROP  RD,RE,RF                                          @D34RDFG 55260034
                           00000 14393+         USING SYSS00,R0,RB          RESET LOW CORE ADDRESSING @D34RDFG 55290034
                                 14394+*                                                                @D348DEM 00104534
                                 14395+*        SUPERVISOR - SGSVCX - 5745-SC-SUP - REL. 34.1           @DY13591 00105134
                                 14396+*                                                                @D348DEM 00105434
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B0F8 18FD                      14398+SGSVCX   LR    RF,RD                  LOAD CORRECT BASE REG.  @D34RDFG 01400034
00B0FA 07FC                      14399+         BR    RC                     GO TO SVC ROUTINE       @D34RDFG 01406034
                           00000 14400+         USING CCBADR,R1              SET STANDARD ADDRESSING @DM12692 01420032
                           0B0F8 14401+         USING SGSVCX,RF              DECLARE BASE            @DM11903 01460032
                                 14402+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 01500032
                                 14403+*                                                                          * 01550032
                                 14404+*SVC 24: STORE THE ADDRESS OF THE USER'S TECB AND SET A TIMER INTERVAL*      01600032
                                 14405+*                                                                          * 01650032
                                 14406+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 01700032

                           0B0FC 14408+SVC24    EQU   *                                                @D34RDFG 01800034
00B0FC 9101 A00F      0000F      14409+         TM    PIBFLG2,ABINPR         AB ROUTINE IN PROGRESS  @D33DDJO 01820033
00B100 4710 09EA      009EA      14410+         BO    ERR21                  YES,ILLEGAL SVC         @D33DDJO 01830033
00B104 1831                      14411+         LR    R3,R1                  SAVE INTERVAL VALUE FOR VALIDATION      02200032
00B106 1810                      14412+         LR    R1,R0                  SET UP R1 FOR TECB VALIDATION           02250032
00B108 4121 0003           00003 14413+         LA    R2,L3(R1)              POINT R2 TO END OF TECB                 02300032
00B10C 4580 B2D2           012D2 14414+         BAL   R8,VALID               VALIDATE TECB ADDRESS                   02350032
00B110 947F 1002      00002      14415+         NI    CCBCOM1,XFF-TRABIT     RESET TRAFFIC BIT                       02400032
00B114 5880 A004           00004 14416+         L     R8,PIBSAVE             SET UP SAVE AREA POINTER                02450032
                           00000 14417+         USING SVEARA,R8              DECLARE BASE                            02500032
00B118 5000 8030           00030 14418+         ST    R0,SVER01              PASS TECB ADDRESS TO USER               02550032
00B11C 1311                      14419+         LCR   R1,R1                  LOAD COMPL TECB ADDR TO IND. TECB       02600032
00B11E 58D0 0894           00894 14420+         L     RD,APBASE              LOAD BASE OF AP ROUTINES @D34RDFG       02800034
                           0E722 14421+         USING SGAP,RD                                   @D34RDFG       02810034
00B122 4550 D8C2           0EFE4 14422+         BAL   R5,SETPOIT             LOAD ADDR OF ITTAB IN REG 7 @D34RDFG 02820034
                                 14423+         DROP  RD                                        @D34RDFG 02830034
00B126 9001 7000           00000 14424+         STM   R0,R1,D0(R7)           STORE TECB ADDR AND COMPLEMENT          02900032
00B12A 1813                      14425+         LR    R1,R3                  RESTORE R1                              02950032
                           0B12C 14426+SVC10    EQU   *                                         @D34RDFG 03000034
00B12C 9101 A00F      0000F      14427+         TM    PIBFLG2,ABINPR         AB ROUTINE IN PROGRESS  @D33DDJO 03020033
00B130 4710 09EA      009EA      14428+         BO    ERR21                  YES,ILLEGAL SVC         @D33DDJO 03030033
00B134 5510 B628           01628 14429+         CL    R1,MAXVAL              INTERVAL TOO LARGE      @DY13591 03042034
00B138 47D0 F048      0B140      14430+         BNH   SVC24N                 NO                      @DY13591 03044034
00B13C 5810 B628           01628 14431+         L     R1,MAXVAL              MAX INTERVAL ALLOWED    @DY13591 03046034
                           0B140 14432+SVC24N   EQU   *                                         @DY13591 03048034
00B140 5820 0050           00050 14433+         L     R2,SYSTIMER            LOAD TIMER              @DM03157 04950032
00B144 5520 B628           01628 14434+         CL    R2,MAXVAL                                              05000032
00B148 4720 F0BA      0B1B2      14435+         BH    SVC24K                                                 05050032
00B14C 1512                      14436+         CLR   R1,R2                                                  05100032
00B14E 47B0 F0B8      0B1B0      14437+         BNL   SVC24C                                                 05150032
00B152 5010 0050           00050 14438+         ST    R1,SYSTIMER            SET UP NEW INTERVAL                     05200032
00B156 1852                      14439+         LR    R5,R2                  ADJUST REMAINING INTERVAL               05300032
00B158 1831                      14440+         LR    R3,R1                  LOAD INTERVAL VALUE     @DM03157 05350032
00B15A 8830 0008           00008 14441+         SRL   R3,L8                  SHIFT 8 POSITIONS       @DM03157 05400032
00B15E 8850 0001           00001 14442+         SRL   R5,L1                  GET SIGN POSITION       @DM03157 05450032
00B162 1155                      14443+         LNR   R5,R5                  FOR NEGATIVE LOAD       @DM03157 05500032
00B164 8A50 0007           00007 14444+         SRA   R5,L7                  DROP REST OF LOW ORDER  @DM03157 05550032
00B168 5E30 0054           00054 14445+         AL    R3,SYSTOD              ADD NEW INTERVAL        @DM03157 05600032
00B16C 1A35                      14446+         AR    R3,R5                  UPDATE SYSTOD                          05650032
00B16E 5030 0054           00054 14447+         ST    R3,SYSTOD                                              05700032
00B172 5850 0748           00748 14448+         L     R5,YITREQ              ADDR OF TIMER REQUEST TABLE             05800032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B176 1F21                      14449+         SLR   R2,R1              DIFF.OF OLD AND NEW INTERVAL          05850032
00B178 9500 5000      00000      14450+SVC24L   CLI   0(R5),ZERO         TABLE END REACHED                     05900032
00B17C 4780 F09A      0B192      14451+         BE    SVC24G             YES SET UP NEW TIMER INTERVAL         05950032
00B180 BF4F 5001            00001 14452+         ICM   R4,M15,1(R5)       LOAD NEXT INTERVAL                    06000032
00B184 1E42                      14453+         ALR   R4,R2              UPDATE THIS INTERVAL                  06050032
00B186 BE4F 5001            00001 14454+         STCM  R4,M15,1(R5)       RESTORE THE INTERVAL                  06100032
00B18A 4155 0005            00005 14455+         LA    R5,5(R5)           GO TO NEXT INTERVAL                   06150032
00B18E 47F0 F080      0B178      14456+         B     SVC24L             UPDATE THE NEXT INTERVAL              06200032
00B192 4570 F0FC            0B1F4 14457+SVC24G   BAL   R7,SVC24H          IF A ENTRY EXIST DELET                06250032
00B196 4850 B860            01860 14458+         LH    R5,TWTIMS          SAVE TIK                              06300032
00B19A D200 B861 0753 01861 00753 14459+         MVC   TWTIMS+1(L1),TIK+1  SET ON NEW TIK                       06350032
00B1A0 1255                      14460+         LTR   R5,R5              WAS THIS INTERVAL FOR NO TASK         06400032
00B1A2 0786                      14461+         BCR   8,R6               YES FORGET IT                         06450032
00B1A4 4950 0752            00752 14462+         CH    R5,TIK             WAS PIK/TIK EQUALS TWTIMS             06500032
00B1A8 0786                      14463+         BCR   8,R6               YES FORGET INTERVAL                   06550032
00B1AA 1812                      14464+         LR    R1,R2              LOAD TIME INTERVAL IN REG 1           06600032
00B1AC 47F0 F0CE      0B1C6      14465+         B     SVC24E             SKIP DELETION OF AN ENTRY             06650032
                            0B1B0 14466+SVC24C   EQU   *                                                      06700032
00B1B0 1F12                      14467+         SLR   R1,R2              DIFF.OF NEW AND OLD INTERVAL          06750032
                            0B1B2 14468+SVC24K   EQU   *                                                      06800032
00B1B2 4570 F0FC            0B1F4 14469+         BAL   R7,SVC24H          IF A ENTRY EXISTS DELET IT            06850032
00B1B6 4850 0752            00752 14470+         LH    R5,TIK                                                 06900032
00B1BA 4950 B860            01860 14471+         CH    R5,TWTIMS          TIK EQUALS TWTIMS                     06950032
00B1BE 4770 F0CE      0B1C6      14472+         BNE   SVC24E             NO GO TO INSERT INTO ITREQ            07000032
00B1C2 9200 B861      01861      14473+         MVI   TWTIMS+1,ZERO      YES SET TWTIMS TO ZERO                07050032
                            0B1C6 14474+SVC24E   EQU   *                                                      07100032
00B1C6 4140 0005            00005 14475+         LA    R4,5                                                   07150032
00B1CA 5830 0748            00748 14476+         L     R3,YITREQ          ADDR OF ITREQ TABLE                   07200032
00B1CE 4130 3046            00046 14477+         LA    R3,70(0,R3)        GO TO THE LAST BUT ONE ENTRY          07400032
00B1D2 D204 3005 3000 00005 00000 14478+SVC24F   MVC   D5(L5,R3),0(R3)    MOVE TABLE ENTRY ONE POSIT HIGER      07500032
00B1D8 1B34                      14479+         SR    R3,R4              GO TO NEXT ENTRY                      07550032
00B1DA 5930 0748            00748 14480+         C     R3,YITREQ          TABLE END REACHED                     07600032
00B1DE 4740 F0F2      0B1EA      14481+         BL    SVC24E1                                                  07650032
00B1E2 5513 0001            00001 14482+         CL    R1,1(R3)           IS TABLE ENTRY LOWER                  07700032
00B1E6 47D0 F0DA      0B1D2      14483+         BNH   SVC24F                                                   07750032
                            0B1EA 14484+SVC24E1  EQU   *                                                      07800032
00B1EA BE1F 3006            00006 14485+         STCM  R1,M15,6(R3)       STORE INTERVAL INTO ITREQ             07850032
00B1EE 4253 0005            00005 14486+         STC   R5,5(R3)           STORE PIK/TIK INTO ITREQ              07900032
00B1F2 07F6                      14487+         BR    R6                 EXIT                                  07950032

                            0B1F4 14489+SVC24H   EQU   *                                                      08100032
00B1F4 5830 0748            00748 14490+         L     R3,YITREQ                                              08150032
00B1F8 4150 0005            00005 14491+         LA    R5,5                                                   08200032
00B1FC 4140 004A            0004A 14492+         LA    R4,75-1                                  @DA09160      08400034
00B200 D500 3000 0753 00000 00753 14493+SVC24H1  CLC   0(L1,R3),TIK+1    IS INTERVAL ALREADY IN TABLE          08500032
00B206 4780 F122      0B21A      14494+         BE    SVC24H2            YES DELET IT                          08550032
00B20A 9500 3000      00000      14495+         CLI   0(R3),ZERO         END OF TABLE REACHED                  08600032
00B20E 0787                      14496+         BER   R7                 CONTINUE                 @DA09160     08650034
00B210 4133 0005            00005 14497+         LA    R3,D5(R3)          GO TO NEXT ENTRY                      08700032
00B214 1B45                      14498+         SR    R4,R5                                                  08750032
00B216 47F0 F108      0B200      14499+         B     SVC24H1                                                  08800032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B21A 4440 F128            0B220 14500+SVC24H2  EX    R4,SVC24H3                                      @DA09160 08850034
00B21E 07F7                       14501+SVC24H4  BR    R7                                              @DA09160 08950034
                                  14502+*                                                              @DA09160 08980034
00B220 D200 3000 3005 00000 00005 14503+SVC24H3  MVC   0(1,R3),5(R3)      FOR EXECUTE               @DA09160 09010034
                                  14504+         DROP  RF                      DROP BASE             @DM11903 09150032
00B226 187D                       14505+SGSVCX2  LR    R7,RD                   LOAD CORRECT BASE REG.  @D34RDFG 09250034
00B228 07FC                       14506+         BR    RC                      GO TO SVC ROUTINE       @D34RDFG 09260034
                            0B226 14507+         USING SGSVCX2,R7              DECLARE BASE            @DM11903 09300032
00B22A 5870 08B4            008B4 14508+SVC34    L     R7,ASVCX2         LOAD BASE                   @D34RDFG 09350034
00B22E 9500 073D      0073D       14509+         CLI   SELECT,ZERO       REQUEST FROM SYSTEM TASK              09750032
00B232 4780 7014      0B23A       14510+         BE    SVC34PP           NO PP OR AR REQUEST                 09800032
00B236 58A0 0794            00794 14511+         L     RA,ASYSBLKX       POINT TO CURRENT SYST TSK BLOCK     09850032
00B23A 5880 A004            00004 14512+SVC34PP  L     R8,PIBSAVE        GET PROPER SAVE AREA ADDRESS        09900032
00B23E 5820 800C            0000C 14513+         L     R2,SVEPSW2        LOAD ADDR FROM OLD PSW              10000032
00B242 D200 B588 2001 01588 00001 14514+         MVC   PARIND(L1),D1(R2) MOVE PARAMETER LIST                 10050032
00B248 9507 2000      00000       14515+         CLI   D0(R2),NEWMACRO   TEST FOR NEW GETIME                 10100032
00B24C 4780 7032      0B258       14516+         BE    STORADD           BRANCH IF NEW GETIME                10150032
00B250 4122 000A            0000A 14517+         LA    R2,D10(R2)        UPDATE RETURN ADDR                  10200032
00B254 9200 B588      01588       14518+         MVI   PARIND,ZERO       CREATE DEFAULT PARAM.               10250032
00B258 5020 800C            0000C 14519+STORADD  ST    R2,SVEPSW2        STORE UPDATED ADDR                  10300032
00B25C 5850 0014            00014 14520+         L     R5,CRADDR         PICK UP ADDR OF COMREG              10350032
                            00000 14521+         USING COMREG,R5         DECLARE BASE            @DM11453 10400032
00B260 9140 5087      00087       14522+         TM    RMSROPEN,TODBIT   TEST FOR TOD SUPPORT      @DM11453 10450032
00B264 4780 704E      0B274       14523+         BZ    NOTODEX           BRANCH IF NOT SO                    10500032

                                  14525+*************************************************************** 10600032
                                  14526+* T.O.D SUPPORT IS ACTIVE. STORE THE T.O.D CLOCK               * 10650032
                                  14527+*************************************************************** 10700032
00B268 B205 B530      01530       14528+STCLOCK  STCK  CLOCK             STORE CLOCK                         10750032
00B26C 4780 7056      0B27C       14529+         BE    PROCESS           GO ON IF CLOCK IN SET STATE         10800032
00B270 94BF 5087      00087       14530+         NI    RMSROPEN,XFF-TODBIT RESET TOD SUPPORT BIT @DM11453    10850032

                                  14532+*************************************************************** 10950032
                                  14533+* T.O.D SUPPORT IS DORMANT. RETURN WITH ZEROES                 * 11000032
                                  14534+*************************************************************** 11050032
00B274 1B00                       14535+NOTODEX  SR    R0,R0             ZERO REGISTER                       11100032
00B276 1B11                       14536+         SR    R1,R1             ZERO REGISTER                       11150032
00B278 47F0 7166      0B38C       14537+         B     EXITTOD           EXIT IF NO TOD SUPPORT              11200032

                                  14539+*************************************************************** 11300032
                                  14540+* CALCULATE T.O.D FOR GREENWICH MEAN TIME (GMT) IN MICROSECONDS * 11350032
                                  14541+* CALCULATE THE DAY DIFFERENCE FROM THE LATEST DATE            * 11400032
                                  14542+*************************************************************** 11450032
00B27C 9801 B530            01530 14543+PROCESS  LM    R0,R1,CLOCK       LOAD CLOCK INTO 2 REGS              11500032
00B280 8C00 000C            0000C 14544+         SRDL  R0,L12            CLOCK IN MICRO-SECONDS              11550032
00B284 9001 B530            01530 14545+         STM   R0,R1,CLOCK       STORE CLOCK                         11600032
00B288 9823 B520            01520 14546+         LM    R2,R3,MIDNIGHT    LOAD MIDNIGHT-VALUE                 11650032
00B28C 1F13                       14547+         SLR   R1,R3             CALCULATE THE                       11700032
00B28E 4730 706E            0B294 14548+         BC    CARRY,SUBMIDHI    * TIME-OF-DAY                       11750032
00B292 0600                       14549+         BCTR  R0,R0             * IN MICRO-SECONDS                  11800032
00B294 1B02                       14550+SUBMIDHI SR    R0,R2             * FOR GMT (MODULO DAY)              11850032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B296 9823 B538            01538 14551+         LM    R2,R3,DAYVALUE     LOAD VALUE OF 1 DAY                    11900032
00B29A 1B44                       14552+         SR    R4,R4              CLEAR COUNTER                          11950032
00B29C 1F13                       14553+LOOPTOD  SLR   R1,R3              CALCULATE THE                          12000032
00B29E 4730 707E            0B2A4 14554+         BC    CARRY,SUBDAYHI     * TIME-OF-DAY BY                       12050032
00B2A2 0600                       14555+         BCTR  R0,R0              * SUBTRACTING                          12100032
00B2A4 1B02                       14556+SUBDAYHI SR    R0,R2              * 1 DAY-VALUE                          12150032
00B2A6 4144 0001            00001 14557+         LA    R4,D1(R4)          UPDATE DAY-COUNT                       12200032
00B2AA 47B0 7076      0B29C       14558+         BNL   LOOPTOD            LOOP IF POSITIVE                       12250032
00B2AE 0640                       14559+         BCTR  R4,R0              CALCULATE DAY DIFF                     12300032
00B2B0 1E13                       14560+         ALR   R1,R3              TIME DIFFERENCE                        12350032
00B2B2 47C0 7094            0B2BA 14561+         BC    NOCARRY,ADDAYHI    * PLUS DAY-VALUE                       12400032
00B2B6 4A00 B6DA            016DA 14562+         AH    R0,H1              * GIVES TOD FOR GMT          @D34SDAP  12450034
00B2BA 1A02                       14563+ADDAYHI  AR    R0,R2              * IN MICRO SECONDS                     12500032

                                  14565+*************************************************************** 12600032
                                  14566+*   - CALCULATE NEW MIDNIGHT VALUE (GMT ONLY)                 * 12650032
                                  14567+*   - CALCULATE T.O.D FOR GMT IN TU'S                         * 12700032
                                  14568+*   - CALCULATE SYSTEM LOCAL T.O.D IN TU'S OR                 * 12750032
                                  14569+*   - JOB LOCAL T.O.D IN TU'S (IF // ZONE)                    * 12800032
                                  14570+*   - UPDATE SYSTEM DATE (LOCAL)                              * 12850032
                                  14571+*   - UPDATE JOB DATE (IF NO // DATE)                         * 12900032
                                  14572+*   - UPDATE GREENWICH DATE                                   * 12950032
                                  14573+*************************************************************** 13000032
00B2BC 5040 B564            01564 14574+UPDMIDN  ST    R4,SAVEDAY         SAVE DAY DIFFERENCE                    13050032
00B2C0 9823 B530            01530 14575+         LM    R2,R3,CLOCK        LOAD CLOCK IN MICROSEC                 13100032
00B2C4 1F31                       14576+         SLR   R3,R1              CALCULATE THE NEW GMT                  13150032
00B2C6 4730 70A6      0B2CC       14577+         BC    CARRY,SUBCLKHI     * MIDNIGHT-VALUE                       13200032
00B2CA 0620                       14578+         BCTR  R2,R0              * BY SUBTRACTING TOD                   13250032
00B2CC 1B20                       14579+SUBCLKHI SR    R2,R0              * FROM CLOCK-VALUE                     13300032

                                  14581+*************************************************************** 13400032
                                  14582+*        IN ORDER TO GET THE TIME-OF-DAY IN TIMER UNITS IN REGISTERS  * 13450032
                                  14583+*        R0 AND R1 THE CURRENT VALUE IS MULTIPLIED FIRST             * 13500032
                                  14584+*        BY 3 AND THEN DIVIDED BY 10000 INSTEAD OF DIVIDED BY 3333   * 13550032
                                  14585+*        WHICH SHOULD HAVE GIVEN A LESS ACCURATE RESULT.             * 13600032
                                  14586+*************************************************************** 13650032

00B2CE 41F0 0002            00002 14588+         LA    RF,D2              INITIALIZE REG                         13750032
00B2D2 9001 B530            01530 14589+         STM   R0,R1,CLOCK        STORE CURRENT VALUE                    13800032
00B2D6 5E10 B534            01534 14590+CALTULP  AL    R1,CLOCK+4         ADD RIGHT PART OF CLOCK VAL            13850032
00B2DA 47C0 70BC            0B2E2 14591+         BC    NOCARRY,ADDCLHI    BRANCH IF NO CARRY                     13900032
00B2DE 4A00 B6DA            016DA 14592+         AH    R0,H1              ADJUST BY 1                  @D34SDAP  13950034
00B2E2 5A00 B530            01530 14593+ADDCLHI  A     R0,CLOCK           ADD LEFT PART OF CLOCK VAL             14000032
00B2E6 46F0 70B0            0B2D6 14594+         BCT   RF,CALTULP         LOOP UNTIL ZERO                        14050032
00B2EA 5D00 B56C            0156C 14595+         D     R0,DIVCONS2        CONVERT TOD TO TU'S                    14100032
00B2EE 9023 B540            01540 14596+         STM   R2,R3,TEMPMIDN     SAVE MIDNIGHT TEMPORARY                14150032
00B2F2 5D20 B55C            0155C 14597+         D     R2,DIVCONS1        DIVIDE BY 100 DAYS IN SECS.            14200032
00B2F6 5D20 B56C            0156C 14598+         D     R2,DIVCONS2        DIVIDE BY 10000 TO GET NUMBER OF DAYS  14250032
00B2FA 4590 71CA            0B3F0 14599+         BAL   R9,DATEGMT         CONVERT GMT DATE                       14300032
00B2FE D205 B514 B572 01514 01572 14600+         MVC   GMTDATE(L'DATEFLD),DATEFLD MOVE SYSTEMDATE                14350032
00B304 5820 B548            01548 14601+         L     R2,DDDYYFLD        LOAD NUMBER OF DAYS                    14400032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B308 4E20 B528            01528 14602+         CVD   R2,CONVERTD        CONVERT TO CHARACTER-IMAGE            14450032
00B30C 960F B52F      0152F       14603+         OI    CONVERTD+7,FSIGN   CORRECT SIGN                          14500032
00B310 F327 B51A B528 0151A 01528 14604+         UNPK  GMTDATE+6(L3),CONVERTD MOVE DDD TO DATE                 14550032
00B316 BFFC B51E            0151E 14605+         ICM   RF,M12,SYSTEMZN    LOAD SYSTEM ZONE                     14600032
00B31A 4590 719A            0B3C0 14606+         BAL   R9,ZONECORR        PERFORM ZONE CORRECTION              14650032
00B31E 50F0 B550            01550 14607+         ST    RF,LOCTODTU        STORE LOCAL TOD IN TU'S              14700032
00B322 D501 B51E 505E 0151E 0005E 14608+         CLC   SYSTEMZN(L2),JOBZON BRANCH IF                  @DM11453 14750032
00B328 4780 7152      0B378       14609+         BE    UPDSYSDT           * JOBZONE EQUAL SYSTEM ZONE          14800032
00B32C 4590 71BC            0B3E2 14610+         BAL   R9,DATEGEN         CONVERT MIDNIGHT TO DATE             14850032
00B330 4590 716C            0B392 14611+         BAL   R9,SETSYSDT        SET SYSTEM DATE                      14900032
00B334 5840 B564            01564 14612+JOBZNCOR L     R4,SAVEDAY         LOAD DAY DIFFERENCE                  14950032
00B338 BFFC 505E            0005E 14613+         ICM   RF,M12,JOBZON      LOAD JOBZONE                 @DM11453 15000032
00B33C 4590 719A            0B3C0 14614+         BAL   R9,ZONECORR        PERFORM ZONE CORRECTION              15050032
00B340 50F0 B550            01550 14615+         ST    RF,LOCTODTU        SAVE AND OVERWRITE TOD               15100032
00B344 9102 503B      0003B       14616+         TM    JCSW4,DATEBIT      // DATE STATEMENT READ       @DM11453 15150032
00B348 4710 713C      0B362       14617+         BO    TESTPARM           BRANCH IF YES                        15200032
00B34C 4590 71BC            0B3E2 14618+         BAL   R9,DATEGEN         CONVERT MIDNIGHT TO DATE             15250032
00B350 D201 5000 B572 00000 01572 14619+SETJOBDT MVC   JOBDATE(L2),DATEFLD  INSERT THE UPDATED           @DM11453 15300032
00B356 D201 5003 B574 00003 01574 14620+         MVC   JOBDATE+3(L2),DATEFLD+2  * JOBDATE IN FORMAT   @DM11453 15350032
00B35C D201 5006 B576 00006 01576 14621+         MVC   JOBDATE+6(L2),DATEFLD+4  * MMDDYY OR DDMMYY    @DM11453 15400032

                                  14623+*************************************************************** 15500032
                                  14624+* LOAD R1 WITH THE CORRECT T.O.D VALUE BEFORE EXIT                * 15550032
                                  14625+*************************************************************** 15600032
00B362 D207 B520 B540 01520 01540 14626+TESTPARM MVC   MIDNIGHT,TEMPMIDN  SET MIDNIGHT                       15650032
00B368 9101 B588      01588       14627+         TM    PARIND,GMT         TEST FOR GMT                         15700032
00B36C 4710 7166      0B38C       14628+         BO    EXITTOD            BRANCH IF YES TO EXIT                15750032
00B370 5810 B550            01550 14629+         L     R1,LOCTODTU        LOAD LOCAL TOD                       15800032
00B374 47F0 7166      0B38C       14630+         B     EXITTOD            BRANCH  TO EXIT                      15850032

                                  14632+*************************************************************** 15950032
                                  14633+* UPDATE THE SYSTEM DATE IN THE COMMUNICATION REGION              * 16000032
                                  14634+*************************************************************** 16050032
00B378 4590 71BC            0B3E2 14635+UPDSYSDT BAL   R9,DATEGEN         CONVERT MIDNIGHT TO DATE             16100032
00B37C 4590 716C            0B392 14636+         BAL   R9,SETSYSDT        SET SYSTEM DATE                      16150032
00B380 9102 503B      0003B       14637+         TM    JCSW4,DATEBIT      // DATE STATEMENT READ       @DM11453 16200032
00B384 4710 713C      0B362       14638+         BO    TESTPARM           BRANCH IF YES                        16250032
00B388 47F0 712A      0B350       14639+         B     SETJOBDT           GO TO UPDATE JOBDATE                 16300032

                                  14641+*************************************************************** 16450032
                                  14642+* EXIT FROM SVC34 ROUTINE                                       * 16500032
                                  14643+*************************************************************** 16550032
00B38C 5010 8030            00030 14644+EXITTOD  ST    R1,SVER01          OVERRIDE  REG 1 IN SAVE-AREA         16600032
00B390 07F6                       14645+         BR    R6                 RETURN                               16650032


                                  14647+*                     *********************                     * 16800032
                                  14648+*                     * S U B R O U T I N E *                     * 16850032
                                  14649+*************************************************************** 16900032
                                  14650+*   - PUTS THE SYSTEM DATE INTO THE COMM REG (MMDDYYDDD OR DDMMYYDDD) * 16950032
                                  14651+*************************************************************** 17000032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          0B392 14652+SETSYSDT EQU   *                                                  @DA09594 17050033
00B392 5820 B548          01548 14653+         L     R2,DDDYYFLD          CONVERT NUMBER OF DAYS                17100032
00B396 4E20 B528          01528 14654+         CVD   R2,CONVERTD          * TO CHARACTER IMAGE                  17150032
00B39A 960F B52F    0152F       14655+         OI    CONVERTD+7,FSIGN     * CORRECT SIGN                        17200032
00B39E F327 B578 B528 01578 01528 14656+         UNPK  DATEFLD2,CONVERTD    AND INSERT THIS              @DA09594 17250033
                                  14657+         DROP  R5,RA                DROP STANDARD USINGS         @DA09594 17300033
00B3A4 4820 0724          00724 14658+         LH    R2,NPART             GET NUMBER OF PARTITIONS      @DA09594 17310033
00B3A8 4830 06CC          006CC 14659+         LH    R3,YPIB2TAB          GET PIB EXTENTION             @DA09594 17320033
00B3AC 4133 0010          00010 14660+SETSYSLP LA    R3,L'PIB2TAB(R3)     FOR NEXT PARTITION            @DA09594 17330033
                          00000 14661+         USING PIBADR,R3            DEFINE BASE                   @DA09594 17340033
00B3B0 4840 3000          00000 14662+         LH    R4,PIBCOMRA          GET COMREG ADDRESS            @DA09594 17342033
                          00000 14663+         USING COMREG,R4            DEFINE BASE                   @DA09594 17344033
00B3B4 D208 404F B572 0004F 01572 14664+         MVC   SYSDATE,DATEFLDS     SET SYSTEM DATE               @DA09594 17346033
00B3BA 4620 7186          0B3AC 14665+         BCT   R2,SETSYSLP          FOR EACH PARTITION            @DA09594 17348033
                                  14666+         DROP  R3,R4                DROP BASE REGS                @DA09594 17348433
                          00000 14667+         USING PIBADR,RA            RESTORE STANDARD USING        @DA09594 17348833
00B3BE 07F9                     14668+         BR    R9                   RETURN                                17350032

                                14670+*                      **********************                          * 17450032
                                14671+*                      * S U B R O U T I N E *                          * 17500032
                                14672+*********************************************************************** 17550032
                                14673+*   - CONVERTS T.O.D FOR GMT INTO T.O.D FOR THE ZONE GIVEN IN RF       * 17600032
                                14674+*   - CALCULATES THE DAY DIFFERENCE FROM LATEST DATE FOR THAT ZONE     * 17650032
                                14675+*********************************************************************** 17700032
00B3C0 8AF0 0010          00010 14676+ZONECORR SRA   RF,D16                 SHIFT TO GET ZONE LOW                 17750032
00B3C4 5CE0 B554          01554 14677+         M     RE,MINTU             IGNORE EVEN REG - VALUE IS 0 OR -1    17800032
00B3C8 1AF1                     14678+         AR    RF,R1                ADD TOD (GMT) TO ZONE                 17850032
00B3CA 58E0 B558          01558 14679+         L     RE,DAYTU             DAY VALUE IN TU'S                     17900032
00B3CE 12FF                     14680+         LTR   RF,RF                TEST IF ZONE NEGATIVE                 17950032
00B3D0 4740 71B6    0B3DC       14681+         BL    NEGZONE              BRANCH IF SO                          18000032
00B3D4 4144 0001          00001 14682+         LA    R4,D1(R4)            UPDATE DAY DIFFERENCE                 18050032
00B3D8 1BFE                     14683+         SR    RF,RE                SUBTRACT DAY VALUE                    18100032
00B3DA 07B9                     14684+         BCR   NL,R9                RETURN IF NOT MINUS                   18150032
00B3DC 1AFE                     14685+NEGZONE  AR    RF,RE                ADD DAY VALUE TO GET TOD              18200032
00B3DE 0640                     14686+         BCTR  R4,R0                UPDATE DAY DIFFERENCE                 18250032
00B3E0 07F9                     14687+         BR    R9                   RETURN                                18300032

                                14689+*                      **********************                          * 18400032
                                14690+*                      * S U B R O U T I N E *                          * 18450032
                                14691+*********************************************************************** 18500032
                                14692+*   - CONVERTS THE OLD GMT MIDNIGHT VALUE INTO THE ACTUAL DATE         * 18550032
                                14693+*     IN THE FORM DDMMYY OR MMDDYY UNPACKED FORMAT                     * 18600032
                                14694+*   - SAVES THE BINARY VALUE OF YYDDD IN THE FIELD 'DDDYYFLD'          * 18650032
                                14695+*********************************************************************** 18700032
00B3E2 9823 B520          01520 14696+DATEGEN  LM    R2,R3,MIDNIGHT       LOAD MIDNIGHT VALUE                   18750032
00B3E6 5D20 B55C          0155C 14697+         D     R2,DIVCONS1          DIVIDE BY 100 DAYS IN SECONDS         18800032
00B3EA 5D20 B56C          0156C 14698+         D     R2,DIVCONS2          AND BY 10000 TO GET NUMBER OF DAYS    18850032
                                14699+*              DIVCONS1 IS 100 TIMES 86400 (NUMBER OF SECONDS IN 1 DAY) 18900032
                                14700+* THIS CONSTANT IS USED TO GET QUOTIENT IN REG R3                        18950032
                                14701+* REG R2 WILL CONTAIN ZEROES (MIDNIGHT IS WHOLE NUMBER OF DAYS)          19000032
                                14702+* THEN THESE REGISTERS ARE DIVIDED BY 10000 (DIVCONS2) TO GET            19050032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   14703+* TOTAL NUMBER OF DAYS IN REG R3 IN THE FORM DDDDD, WHICH IS            19100032
                                   14704+* CONVERTED INTO YYDDD IN THE ROUTINE BELOW                            19150032
                                   14705+*                                                                      19200032
00B3EE 1A34                        14706+         AR    R3,R4               ADJUST BY DAY DIFFERENCE            19250032
00B3F0 4133 0001           00001 14707+DATEGMT   LA    R3,D1(R3)           SIMULATE 1900 LEAP YEAR             19300032
00B3F4 5D20 B560           01560 14708+          D     R2,FOURYEAR         DIVIDE BY DAYS IN 4 YEARS           19350032
00B3F8 8930 0002           00002 14709+          SLL   R3,D2               MULTIPLY YEARS BY 4                 19400032
00B3FC 4122 0001           00001 14710+          LA    R2,D1(R2)           ADD 1 TO GET VALID DATE             19450032
00B400 41F0 016E           0016E 14711+          LA    RF,LEAPYEAR         INITIALIZE REG BY 366               19500032
00B404 192F                      14712+LOOPDAYS  CR    R2,RF               BRANCH IF NOT MORE DAYS             19550032
00B406 47D0 71F2      0B418      14713+          BNH   DAYSEXIT            * THAN 366 (OR 365 LATER)           19600032
00B40A 4133 0001           00001 14714+          LA    R3,D1(R3)           ADD 1 TO YEAR VALUE                 19650032
00B40E 1B2F                      14715+          SR    R2,RF               SUBTRACT 366 OR 365                 19700032
00B410 41F0 016D           0016D 14716+          LA    RF,NOLPYEAR         INITIALIZE REG BY 365               19750032
00B414 47F0 71DE      0B404      14717+          B     LOOPDAYS            RETURN TO LOOP (MAX 3 TIMES)        19800032
00B418 9023 B548           01548 14718+DAYSEXIT  STM   R2,R3,DDDYYFLD      SAVE YY AND DDD                     19850032
00B41C 1BFF                      14719+          SR    RF,RF               CLEAR WORK REGISTER                 19900032
00B41E 921C B57D      0157D      14720+          MVI   FEBRUARY,FEBNOLP    SET FEBRUARY TO 28                  19950032
00B422 9103 B54F      0154F      14721+          TM    YYFLD,LEAP          BRANCH TO SKIP SETTING 29           20000032
00B426 4770 7208      0B42E      14722+          BNZ   INITOK             * IF NOT LEAP YEAR                   20050032
00B42A 921D B57D      0157D      14723+          MVI   FEBRUARY,FEBLEAP    SET FEBRUARY TO 29                  20100032
00B42E 41E0 0001           00001 14724+INITOK    LA    RE,ONE              INITIALIZE MONTH REGISTER           20150032
00B432 43FE B57B           0157B 14725+LOOPMONT  IC    RF,MONTHTAB(RE)     PICK UP DAY VALUE                   20200032
00B436 192F                      14726+          CR    R2,RF               COMPARE WITH DDD                    20250032
00B438 47D0 7220      0B446      14727+          BNH   MONTHEXT            BRANCH IF MONTH FOUND               20300032
00B43C 1B2F                      14728+          SR    R2,RF               SUBTRACT DAY VALUE                  20350032
00B43E 41EE 0001           00001 14729+          LA    RE,D1(RE)           INCREASE MONTH VALUE                20400032
00B442 47F0 720C      0B432      14730+          B     LOOPMONT            BRANCH TO LOOP                      20450032
00B446 5830 B54C           0154C 14731+MONTHEXT  L     R3,DDDYYFLD+4       PICK UP YEAR VALUE                  20500032
00B44A 4CE0 B56E           0156E 14732+          MH    RE,FIRSTITM         MAKE VALUE MM0000                   20600032
00B44E 4C20 B570           01570 14733+          MH    R2,SECITEM          MAKE VALUE DD00                     20650032
00B452 1A3E                      14734+          AR    R3,RE               VALUE IS MM00YY / 00MMYY            20950032
00B454 1A32                      14735+          AR    R3,R2               VALUE IS MMDDYY / DDMMYY            21000032
00B456 4E30 B528           01528 14736+          CVD   R3,CONVERTD         CONVERT TO DECIMAL                  21050032
00B45A 960F B52F      0152F      14737+          OI    CONVERTD+7,FSIGN    CORRECT SIGN                        21100032
00B45E F357 B572 B528 01572 01528 14738+          UNPK  DATEFLD,CONVERTD    MAKE CHARACTER IMAGE                21150032
00B464 07F9                      14739+          BR    R9                  RETURN                              21200032
                                   14740+*                                                                      21350032
                                   14741+*       THIS ROUTINE SCHEDULES RECORDING ON THE SYSREC FILE            21400032
                                   14742+*                                                                      21450032
00B466 1B22                      14743+SVC44     SR    R2,R2               CLEAR REG.FOR LENGTH OF REC. @D34RDFG 21500034
00B468 18E2                      14744+          LR    RE,R2               CLEAR IND.FOR TFIXED RECORD  @DF00867 21550032
00B46A 4321 0000           00000 14745+          IC    R2,D0(R1)           GET LENGTH OF SD-RECORD      @DF00991 21600032
                           0B46E 14746+PCKSVC44  EQU   *                   PROG.CHECK MAY OCCUR HERE    @DF00991 21650032
00B46E 4142 1003           00003 14747+          LA    R4,D3(R2,R1)        GET ADDR.OF LAST BYTE OF RECORD       21700032
00B472 1824                      14748+          LR    R2,R4               PREPARE FOR VALIDATION       @DF00991 21750032
00B474 4580 B2C4           012C4 14749+          BAL   R8,VALIDSVA         VALIDATE SD-RECORD           @DM14275 21800032
00B478 BD17 07E5           007E5 14750+RECFINOK  CLM   R1,M7,EOCADDR+1     REQUEST FROM REAL PROGRAM    @DM11453 21850032
00B47C 4740 7296      0B4BC      14751+          BL    TSTERQ              YES,DON'T TFIX                        21900032
00B480 1821                      14752+          LR    R2,R1               PREPARE PARAM.FOR TFIX                21950032
00B482 4830 0752           00752 14753+          LH    R3,TIK              GET IDENTIFIER OF USER TASK           22000032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B486 8830 0004            00004 14754+         SRL   R3,D4              CHANGE TO OFFSET                        22050032
00B48A 4133 B705            01705 14755+         LA    R3,SVC44FLD(R3)    IN  SVC 44 CONTROL FIELD                22100032
00B48E D200 3000 0753 00000 00753 14756+         MVC   D0(L1,R3),TIK+D1   INDICATE REQUEST FOR THIS TASK          22150032
00B494 9680 08E4      008E4       14757+         OI    TFIXIDEN,SVC44IDN  IDENTIFY SVC 44 TFIX REQUEST           22200032
00B498 58E0 0778            00778 14758+         L     RE,APMGR           SET BASE FOR PAGE MANAGER               22250032
                            082E6 14759+         USING PMGRADR,RE                                                 22300032
00B49C 45C0 E7A6            08A8C 14760+         BAL   RC,TFIX            TFIX SD RECORD                          22350032
00B4A0 1824                       14761+         LR    R2,R4              LOAD ADDRESS OF LAST BYTE OF RECORD     22400032
00B4A2 45C0 E7A6            08A8C 14762+TFX44    BAL   RC,TFIX            TFIX IT                                 22450032
00B4A6 9200 3000      00000       14763+         MVI   D0(R3),ZERO        CLEAR TASK INDICATOR IN SVC44 CONTROL   22550032
00B4AA 41E0 00AF            000AF 14764+         LA    RE,RMSTF           IND.TFIXED ALT.ENTRY          @DF00867  22600032
00B4AE D60F B705 B705 01705 01705 14765+         OC    SVC44FLD,SVC44FLD  ANY TFIX REQUEST PENDING FOR SVC44    22650032
00B4B4 4770 7296      0B4BC       14766+         BNZ   TSTERQ            YES                                     22700032
00B4B8 947F 08E4      008E4       14767+         NI    TFIXIDEN,XFF-SVC44IDN CLEAR TFIX INDICATOR FOR SVC44      22750032
00B4BC 5890 070C            0070C 14768+TSTERQ   L     R9,AINTER          LOAD IOINTER BASE REGISTER   @D34SDAP 22800034
00B4C0 18C7                       14769+         LR    RC,R7              SAVE BASE REGISTER           @D34SDAP 22810034
                            02EDA 14770+         USING INTRTN,R9          ESTABLISH ADDRESSABILITY     @D34SDAP 22830034
00B4C2 4570 9B30            03A0A 14771+         BAL   R7,INTOBR          FIND NEXT FREE ERROR ENTRY   @D34SDAP 22860034
00B4C6 187C                       14772+         LR    R7,RC              RESTORE BASE REGISTER        @D34SDAP 22870034
00B4C8 1222                       14773+         LTR   R2,R2              HAS FREE ENTRY BEEN FOUND    @D34SDAP 22890034
00B4CA 4780 72DC      0B502       14774+         BZ    CTD44              NO, PROVIDE FOR RE-SVC       @D34SDAP 22920034
                            00000 14775+         USING ERRQUE,R2          MAKE ERROR ENTRY ADDRESSABLE @D34SDAP 22950034
00B4CE 92AE 200B      0000B       14776+         MVI   ERRQMSG,RMSAE      POST ALTERNATE ENTRY         @D34SDAP 23050034
00B4D2 12EE                       14777+         LTR   RE,RE              REAL REQUEST                 @DM00587 23100032
00B4D4 4780 72C2      0B4E8       14778+         BZ    NOTFIX1            YES, DON'T UPDATE            @DM00587 23150032
00B4D8 42E0 2016            00016 14779+         STC   RE,ERRQSNS+2       INDICATE IF TFIXED RECORD    @D34SDAP 23200034
00B4DC 48E0 08F0            008F0 14780+         LH    RE,CNTCOM          INCREASE TFIX COUNTER                   23250032
00B4E0 41EE 0001            00001 14781+         LA    RE,D1(RE)                                                  23300032
00B4E4 40E0 08F0            008F0 14782+         STH   RE,CNTCOM                                                  23350032
00B4E8 D201 2014 B654 00014 01654 14783+NOTFIX1  MVC   ERRQSNS(L'RMSWTR),RMSWTR CALL $$ABERA3           @D34SDAP 23400034
00B4EE 5010 2000            00000 14784+         ST    R1,ERRQCSW         STORE ADDRESS OF RECORD      @D34SDAP 23440034
00B4F2 D203 2004 1000 00004 00000 14785+         MVC   ERRQCSW+4(L4),D0(R1) SAVE RECORD INFORMATION    @D34SDAP 23480034
00B4F8 50A0 200C            0000C 14786+         ST    RA,ERRQSEK         SAVE REQUESTORS PIB ADDR     @D34SDAP 23520034
00B4FC 9200 1002      00002       14787+         MVI   D2(R1),ZERO        CLEAR FLAG BYTE                         23600032
00B500 07F6                       14788+         BR    R6                 EXIT TO DISPATCHER           @D34SDAP 23700034
                                  14789+         DROP  R2                                          @DM01435 23750032
00B502 41F0 0FDC            00FDC 14790+CTD44    LA    RF,RESVC           RETRY RECORDING                         23800032
00B506 12EE                       14791+         LTR   RE,RE              REAL REQUEST                 @DM00587 23850032
00B508 4780 0FDC      00FDC       14792+         BZ    RESVC              YES, RESVC/DEACT/RESET       @DM00587 23900032
00B50C B134 0000            00000 14793+TF44R2   LRA   R3,D0(R4)          PREPARE PARAMETER FOR TFREE 2ND P.      23950032
00B510 8830 000B            0000B 14794+         SRL   R3,D11             CALCULATE REAL PAGE NUMBER              24000032
00B514 58E0 0778            00778 14795+         L     RE,APMGR           RESTORE BASE PAGE MANAGER    @DM11412 24050032
00B518 45C0 E824            08B0A 14796+         BAL   RC,TFREE           TFREE THE TFIXED PAGES                  24100032
00B51C B131 0000            00000 14797+TF44R1   LRA   R3,D0(R1)          CALCULATE REAL PAGE FRAME NUM.          24150032
00B520 8830 000B            0000B 14798+         SRL   R3,D11             OF LAST BYTE OF RECORD                  24200032
00B524 58E0 0778            00778 14799+         L     RE,APMGR           RESTORE BASE PAGE MANAGER    @DM11412 24250032
00B528 45C0 E824            08B0A 14800+         BAL   RC,TFREE           TFREE PAGE WITH LAST BYTE               24300032
00B52C 41CB B000            00000 14801+         LA    RC,D0(RB,RB)       RESTORE BASE REGISTER                   24350032
00B530 07FF                       14802+         BR    RF                 GO TO RESVC/DEACT/RESET                 24400032
                                  14803+         DROP  RE                                                       24450032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          0B532 14805+SVC52    EQU   *                                                  @D34RDFG 24900034
00B532 5830 0050          00050 14806+         L     R3,SYSTIMER        GET TIMER VALUE                          24950032
00B536 1B11                     14807+         SR    R1,R1              CLEAR WORKREG                            25000032
00B538 D500 B861 0753 01861 00753 14808+       CLC   TWTIMS+1(L1),TIK+1   INTERVAL OF TASK IN LOC 80            25050032
00B53E 4780 7340      0B566     14809+         BE    SVC52A             YES, BRANCH                              25100032
00B542 5810 0748          00748 14810+         L     R1,YITREQ          GET ADDR OF ITREQ TABLE                  25150032
                          0B546 14811+SVC52C   EQU   *                                                        25200032
00B546 D500 0753 1000 00753 00000 14812+       CLC   TIK+1(1),0(R1)     INTERVAL FOR PARTITION                   25250032
00B54C 4780 733A      0B560     14813+         BE    SVC52B             YES, GO TO ADD IT TO R2                  25300032
00B550 9500 1000      00000     14814+         CLI   0(R1),ZERO         END OF TABLE REACHED                     25350032
00B554 4780 739C      0B5C2     14815+         BE    SVC52E             NO SETTIME WAS ISSUED                    25400032
00B558 4111 0005          00005 14816+         LA    R1,5(R1)           GO TO NEXT ENTRY                         25450032
00B55C 47F0 7320      0B546     14817+         B     SVC52C                                                      25500032
00B560 BF5F 1001          00001 14818+SVC52B   ICM   R5,M15,1(R1)       GET INTERVAL                             25550032
00B564 1A35                     14819+         AR    R3,R5              ADD IT TO VALUE FROM LOC 80              25600032
                          0B566 14820+SVC52A   EQU   *                                                        25650032
00B566 4140 0300          00300 14821+         LA    R4,768                                                      25700032
00B56A 1B22                     14822+         SR    R2,R2              CLEAR REGISTER                           25750032
00B56C 1D24                     14823+         DR    R2,R4              COMPUTE 1/100 SEC                        25800032
00B56E 5880 A004          00004 14824+         L     R8,PIBSAVE         PP SAVE AREA                             25850032
                          00000 14825+         USING SVEARA,R8                                                 25900032
00B572 5030 802C          0002C 14826+         ST    R3,SVER00          INSERT INTO REG 0                        25950032
00B576 1200                     14827+         LTR   R0,R0              CANCEL SPECIFIED                         26000032
00B578 0786                     14828+         BCR   Z,R6               NO,RETURN                                26050032
00B57A 1211                     14829+         LTR   R1,R1              INTERVAL DIRECT IN LOC 80                26100032
00B57C 4780 7370      0B596     14830+         BZ    SVC52H                                                      26150032
00B580 D204 1000 1005 00000 00005 14831+SVC52G MVC   0(5,R1),5(R1)      DELET THE ENTRY                          26200032
00B586 9500 1005      00005     14832+         CLI   5(R1),ZERO         CONTAINS NEXT ENTRY MAX VALUE            26250032
00B58A 4780 7374      0B59A     14833+         BE    SVC52F             YES BRANCH                               26300032
00B58E 4111 0005          00005 14834+         LA    R1,5(R1)           GO TO NEXT ENTRY                         26350032
00B592 47F0 735A      0B580     14835+         B     SVC52G                                                      26400032
                          0B596 14836+SVC52H   EQU   *                                                        26450032
00B596 9200 B861      01861     14837+         MVI   TWTIMS+1,ZERO      INDICATE RUNNING INTERVAL BELONGS        26500032
                                14838+*                                NOT TO A TASK                            26550032
                          0B59A 14839+SVC52F   EQU   *                                                        26600032
00B59A 4830 0752          00752 14840+         LH    R3,TIK             LOAD TASK IDENTIFIER                     26700032
00B59E 4140 0010          00010 14841+         LA    R4,16                                                       26900032
00B5A2 1B34                     14842+         SR    R3,R4              COMPUTE CORRECT ENTRY IN ITTAB           26950032
00B5A4 8A30 0001          00001 14843+         SRA   R3,L1                                                     27000032
00B5A8 4A30 06B6          006B6 14844+         AH    R3,YITTAB                                                 27050032
00B5AC 5813 0004          00004 14845+         L     R1,4(R3)           TECB AVAILABLE                           27100032
00B5B0 1211                     14846+         LTR   R1,R1                                                     27150032
00B5B2 07A6                     14847+         BCR   10,R6              NO RETURN                                27200032
00B5B4 1011                     14848+         LPR   R1,R1              POINT REG 1 TO TECB                      27250032
00B5B6 9680 1002      00002     14849+         OI    CCBCOM1,TRABIT     POST TECB                                27300032
00B5BA D707 3000 3000 00000 00000 14850+       XC    0(L8,R3),0(R3)     CLEAR ITTAB                              27350032
                          0B5C0 14851+SVC52K   EQU   *                                                        27400032
00B5C0 07F6                     14852+         BR    R6                                                        27450032
00B5C2 1B22                     14853+SVC52E   SR    R2,R2                                                     27500032
00B5C4 5880 A004          00004 14854+         L     R8,PIBSAVE                                                27550032
                          00000 14855+         USING SVEARA,R8                                                 27600032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B5C8 5020 802C            0002C 14856+         ST    R2,SVER00          INDICATE NO INTERVAL PENDING          27650032
00B5CC 1200                       14857+         LTR   R0,R0               CANCEL SPECIFIED              @D33DDJO 27664033
00B5CE 0786                       14858+         BER   R6                 NO,EXIT TO TASK SELECT        @D33DDJO 27671033
00B5D0 58D0 0894            00894 14859+         L     RD,APBASE          BASE OF AP ROUTINES           @D34RDFG 27673034
                            0E722 14860+         USING SGAP,RD                                            @D34RDFG 27675034
00B5D4 4550 D932            0F054 14861+         BAL   R5,GETAB           GET ABTAB ENTRY               @D33DDJO 27678033
                                  14862+         DROP  RD                                                 @D34RDFG 27681034
00B5D8 94BF 7000      00000       14863+         NI    D0(R7),XFF-DELTINT RESET TIMER PENDING BIT       @D33DDJO 27685033
00B5DC 07F6                       14864+         BR    R6                 RETURN                                27700032


                            0B5DE 14866+SVC95    EQU   *                       EXIT AB ROUTINE         @D34RDFG 27903034
                            0B5DE 14867+         USING *,RE                    DECLARE BASE            @D33DDJO 27904033
00B5DE 18ED                       14868+         LR    RE,RD                   LOAD BASE ADDRESS       @D34RDFG 27904534
00B5E0 9550 0753      00753       14869+         CLI   TIK+D1,HPIKMT           MAIN TASK               @D33DDJO 27906033
00B5E4 4720 09EA            009EA 14870+         BC    H,ERR21                 NO,ILLEGAL SVC          @D33DDJO 27907033
00B5E8 94F2 A00F      0000F       14871+         NI    PIBFLG2,XFF-ABINPR-CNCLD-FETCHEOJ  RESET ALL    @D33DDJO 27909033
                                  14872+*                                      END OR CANCEL CONDITIONS@D33DDJO 27910033
00B5EC 9200 A001      00001       14873+         MVI   PIBCNCL,X'00'           RESET CANCEL CODE       @D33DDJO 27911033
00B5F0 58D0 0894            00894 14874+         L     RD,APBASE               BASE OF AP ROUTINES     @D34RDFG 27911334
                            0E722 14875+         USING SGAP,RD                                         @D34RDFG 27911634
00B5F4 4550 D932            0F054 14876+         BAL   R5,GETAB                GET ABTAB ENTRY         @D33DDJO 27912033
                                  14877+         DROP  RD                                              @D34RDFG 27912534
00B5F8 9200 7004      00004       14878+         MVI   D4(R7),X'00'            CLEAR CANCEL CODE       @D33DDJO 27913033
00B5FC D500 0753 07B7 00753 007B7 14879+         CLC   TIK+D1(L1),TTOWNR+D1    TASK OWNS THE TASK TIMER@D33PAGA 27913233
00B602 4770 E03C      0B61A       14880+         BNE   SVC95X1                 BRANCH IF NO            @D33PAGA 27913333
00B606 9140 07A8      007A8       14881+         TM    ATTTAB,TTWAIT           INTERRUPT PENDING       @D33PAGA 27913433
00B60A 4780 E03C      0B61A       14882+         BZ    SVC95X1                 BRANCH IF NO            @D33PAGA 27913533
00B60E 94BF 07A8      007A8       14883+         NI    ATTTAB,XFF-TTWAIT       TURN OFF INTERRUPT BIT  @D33PAGA 27913633
00B612 5850 0834            00834 14884+         L     R5,PCBPTR               POINTER TO PCB          @D34UDJO 27913734
                            00000 14885+         USING PCBADR,R5                                       @D34UDJO 27913834
00B616 9640 5000      00000       14886+         OI    PCBFLAG,OWNTIMER        TURN ON TASK TIMER BIT  @D34UDJO 27914534
                                  14887+         DROP  R5                                              @D34UDJO 27914634
                            0B61A 14888+SVC95X1  EQU   *                                               @D33PAGA 27915634
00B61A 9140 7000      00000       14889+         TM    D0(R7),DELTINT          TIMER INTERR. PENDING   @D33DDJO 27915934
00B61E 07E6                       14890+         BCR   14,R6                   NO,RETURN TO EXIT       @D33DDJO 27916033
00B620 9608 A004      00004       14891+         OI    PIBDATFL,CDELEX         TIMER INTERR. PENDING   @D33DDJO 27917033
00B624 94BF 7000      00000       14892+         NI    D0(R7),XFF-DELTINT      RESET TIMER INTERR. BIT @D33DDJO 27918033
00B628 58E0 0878            00878 14893+         L     RE,AEXTRTN              TIMER INTERR. ROUTINE   @D33DDJO 27919033
                            02D68 14894+         USING EXTRTN,RE                                       @D33DDJO 27920033
00B62C 47F0 E064      02DCC       14895+         B     EXTRETRN                PROCESS TIMER INTERR.   @D33DDJO 27921033
                                  14896+         DROP  RE                                              @D33DDJO 27926033
                                  14897+         DROP  R7                      DROP THIS BASEREG       @DM11903 46200032
                            00000 14898+         USING CCWADR,R7               RESET TO STANDARD       @DM11903 46250032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   14900+* VS/ACCESS METHOD - SGAM - 5745-SC-SUP - REL. 34              @D34RDUL 00455034
00B630 41ED 000C            0000C 14901+SGAM     LA    RE,CDLOAD-SGAM(RD) LOAD BASE ADDRESS          @D34RDFG 00465034
00B634 07FC                       14902+          BR    RC                 GOTO TO SVC ROUTINE        @D34RDFG 00475034
                                  14903+*                                                                 RZ 00512828
                                  14904+*         ADDRESS OF FOLLOWING ROUTINES                           RZ 00518728
                                  14905+*                                                                 RZ 00524628
00B636                            14906+          DS    0H .                                        @DL295HL 00526629
00B636 0000
00B638 0000B63C                   14907+VSAMCOM   DC    A(CDLOAD)                                       RZ 00530528
                                  14908+*                                                                 RZ 00536428
                                  14909+          DROP  R8                                                VD 00548228
                            00000 14910+          USING SVEARA,R9                                   @DL295HL 00554129
                            0B63C 14911+          USING *,RE .              REG 14 IS BASE          @DL295HL 00600029
                            0B63C 14912+CDLOAD    EQU   * .                 ENTRY-POINT OF VSAM POUTINES @DL295HL 00610029
                                  14913+************************************************************ @DM14638 00616032
                                  14914+*                                                           *           00617032
                                  14915+* THE CDLOAD MACRO ROUTINE IS ENTERED IF AN SVC 65 IS ISSUED *           00620032
                                  14916+* THE GENERAL SVC ENTRY ROUTINE TRANSFERS CONTROL TO CDLOAD. * @DM12777 00621032
                                  14917+* AT THE BEGINNING THE NAME OF THE PHASE IS MOVED INTO THE   * @DM12777 00622032
                                  14918+* SYSTEM SAVE AREA AT CALLNAME.                               * @DM12777 00623032
                                  14919+* IF THE ANCHOR TABLE HAS BEEN BUILT PREVIOUSLY AND IT       * @DM12777 00624032
                                  14920+* CONTAINS AN ENTRY FOR THE REQUESTED PHASE, CONTROL IS      * @DM12777 00625032
                                  14921+* RETURNED IMMEDIATELY.                                      * @DM12777 00626032
                                  14922+* IF THE ANCHOR TABLE EITHER DOES NOT CONTAIN AN ENTRY FOR   * @DM12777 00627032
                                  14923+* THE REQUESTED PHASE, OR HAS NOT YET BEEN BUILT, A LOAD IS  * @DM12777 00628032
                                  14924+* ISSUED WITH TXT=NO AND DE=YES.                             * @DM12777 00629032
                                  14925+*  ( THE 34-BYTE DIRECTORY ENTRY WHICH HAS TO BE PROVIDED BY *           00630032
                                  14926+*    THE LOAD FOR THE FETCH ROUTINE WILL BE LOCATED IN THE   *           00631032
                                  14927+*    SYSTEM SAVE AREA OF THE TASK STARTING AT CALLNAME. SO   *           00632032
                                  14928+*    THE INSTRUCTION IN FETCH WHICH MOVES THE DE INTO THE    *           00633032
                                  14929+*    LOCATION SPECIFIED BY THE USER IS A NOP-INSTRUCTION FOR *           00634032
                                  14930+*    THE LOAD ISSUED BY CDLOAD)                              *           00635032
                                  14931+*                                                            *           00636032
                                  14932+* IF THE PHASE IS FOUND IN THE SVA THE RETURN CODE AND THE   * @DM12777 00637032
                                  14933+* RETURN PARAMETERS ARE STORED INTO THE PP-SAVE AREA.        * @DM12777 00638032
                                  14934+* OTHERWISE A TEST IS MADE TO DETERMINE WHETHER THE          * @DM12777 00639032
                                  14935+* ANCHOR TABLE HAS BEEN BUILT PREVIOUSLY. IF NOT, THE       * @DM12777 00640032
                                  14936+* GTVISINIT ROUTINE IS CALLED TO BUILD THE TABLE, AND       * @DM12777 00641032
                                  14937+* SUBSEQUENTLY THE TABLE IS INITIALIZED.                    * @DM12777 00642032
                                  14938+*    THE GTVSINIT ROUTINE CHECKS THAT SIZE WAS SPECIFIED     * @DM12777 00643032
                                  14939+*    IN THE EXEC STATEMENT AND THAT THE PROGRAM RUNS IN A    *           00644032
                                  14940+*    VIRTUAL PARTITION. IT SETS THE REGISTERS R4 TO THE      *           00645032
                                  14941+*    PP-SAVEAREA AND ANCHBAS TO THE ANCHORTABLE.             *           00649032
                                  14942+*    THE RETURNCODE REGISTER REG15 WHICH PASSES THE PAGE     *           00650032
                                  14943+*    PARAMETER TO THE SVC ROUTINE IS STORED IN PP-SAVEAREA   *           00651032
                                  14944+*    AND CONTAINS THE RETUNCODE 0,4,8 DEPENDENT WHETHER OR   *           00652032
                                  14945+*    NOT AN ERROR WAS FOUND DURING GTVSINIT EXECUTION.       *           00653032
                                  14946+*                                                            *           00670032
                                  14947+* WHEN THE PHASE WILL BE LOADED INTO THE PARTITION OF THE    *           00671032
                                  14948+* REQUESTOR A SECOND LOAD WITH DE=YES AND TXT=YES IS ISSUED. *           00672032
                                  14949+*                                                            *           00675032
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  14950+************************************************************ @DM14638 00676032
00B63C 5890 A008            00008 14951+         L     R9,PIBSAV2 .       GETADDR OF SYSTEM SAVE AREA  @DL295HL 00680029
00B640 D207 9068 1000 00068 00000 14952+         MVC   CALLNAME,D0(R1) .  SAVE PHASE NAME              @DL295HL 00685029
                            0B646 14953+PCKSVC65 EQU   *        USED BY PAGE MANAGER IF R1 INCORRECT   @DM14661 00690032


00B646 4520 E0A0            0B6DC 14955+         BAL   LINKREG,CDLDSETP   GO SET UP REGISTERS           @DM14638 00714032
00B64A 47F0 E026      0B662       14956+         B     CDLDNANC           ANCHTAB NOT YET BUILT        @DM14638 00717032
                            0B64E 14957+PHSNCOMP EQU   *                  RETURN HERE IF ANCHTAB BUILT @DM14638 00719032
                                  14958+*   SCAN ANCHOR TABLE OF PARTITION                            @DM14638 00720032
00B64E D507 5000 9068 00000 00068 14959+         CLC   0(8,PHSNAME),CALLNAME COMPARE PHASENAME TO NAME @DM14638 00721032
                            0B654 14960+PCKCDL1  EQU   *                  IF ANCHOR TABLE OVERLAYED    @DY11894 00721534
00B654 4780 E0C6      0B702       14961+         BE    PHSFND             IN ANCHOR TABLE              @DM12777 00722032
00B658 4155 0014            00014 14962+         LA    PHSNAME,ENTRYL(PHSNAME) POINT TO NEXT ENTRY     @DM12777 00723032
00B65C 1953                       14963+         CR    PHSNAME,WORK1      POINTING OVER LAST SLOT      @DM12777 00724032
00B65E 47D0 E012      0B64E       14964+         BNH   PHSNCOMP           IF NOT, CONTINUE SCAN        @DM12777 00725032


                            0B662 14966+CDLDNANC EQU   *                                               @DM12777 00729032
00B662 D719 9070 9070 00070 00070 14967+         XC    ENTRYSAV,ENTRYSAV  CLEAR AREA FOR DIR ENTRY     @DM14661 00729132
00B668 4530 E1C4            0B800 14968+         BAL   R3,TSTFBND         TEST IF FETCH BUSY AND SET   @DM14661 00729232
                                  14969+*                                 TASK BOUND IF YES            @DM14661 00729432
                                  14970+*                                 ELSE BUILD CALLING SEQUENCE  @DM14661 00729632
00B66C 58B0 0844            00844 14971+         L     RB,HEX1000         RELOAD LOW CORE BASE         @D34RDFG 00729834
00B670 1B00                       14972+         SR    R0,R0                                           @DL295HL 00730032
00B672 9603 E1E4      0B820       14973+         OI    CDLCALLS+D4,DENTRY+NTXTNTRY WITH DE=YES,TXT=NO  @DL295HL 00731032
00B676 5880 0708            00708 14974+         L     R8,AFETCH          ADDRESS FETCH ROUTINE        @DL29ZCF 00732032
00B67A 0598                       14975+         BALR  R9,R8              AND LOAD PHASE               @DL29ZCF 00733032
00B67C 9283 A000      00000       14976+         MVI   PIBFLG,READY       MAKE TASK READY TO RUN       @DL295HL 00734032
00B680 58E0 0788            00788 14977+         L     RE,AMCOM                                        @DL295HL 00735032
00B684 58E0 E000            00000 14978+         L     RE,D0(0,RE)        RELOAD BASE REG OF CDLOAD    @DL295HL 00736032
00B688 5890 A008            00008 14979+         L     R9,PIBSAV2         POINT TO SYSTEM SAVE AREA    @DL295HL 00737032
00B68C 9104 9078      00078       14980+         TM    ENTRYC,NOTFND      IF PHASE NOT FOUND           @DL295HL 00738032
00B690 4710 09EC      009EC       14981+         BO    ERR22              BRANCH                       @DL295HL 00739032
00B694 1820                       14982+         LR    R2,R0              ENTRY POINT TO REG 2         @DL295HL 00740032
00B696 9110 9078      00078       14983+         TM    ENTRYC,SVAPHASE    PHASE FOUND IN SVA           @DL295HL 00742032
00B69A 4710 E170      0B7AC       14984+         BO    GPARMTRS           YES, BRANCH                  @DL295HL 00743032
                                  14985+*   PHASE NOT IN SVA - PHASE WILL BE LOADED INTO PARTITION     @DL295HL 00744032


00B69E 4520 E0A0            0B6DC 14987+         BAL   LINKREG,CDLDSETP   GO SET UP REGISTERS           @DM14638 00750032
00B6A2 47F0 E086      0B6C2       14988+         B     CDLDINIT           ANCHTAB NOT YET BUILT        @DM14638 00752032
                            0B6A6 14989+ATL      EQU   *                  RETURN HERE IF ANCHTAB BUILT @DM14638 00754032
00B6A6 9500 5000      00000       14990+         CLI   0(PHSNAME),ZERO    THIS ENTRY FREE              @DM12777 00762032
                            0B6AA 14991+PCKCDL2  EQU   *                  IF ANCHOR TABLE OVERLAYED    @DY11894 00763034
00B6AA 4780 E08E      0B6CA       14992+         BE    CDLDMOVE           YES, STORE INFO              @DM12777 00764032
00B6AE 4155 0014            00014 14993+         LA    PHSNAME,ENTRYL(PHSNAME) INCREMENT TO NEXT ENTRY @DM12777 00766032
00B6B2 1953                       14994+         CR    PHSNAME,WORK1      POINTING OVER LAST SLOT      @DM12777 00768032
00B6B4 47D0 E06A      0B6A6       14995+         BNH   ATL                IF NOT, CONTINUE SCAN        @DM12777 00770032
00B6B8 1BFF                       14996+         SR    RF,RF              CLEAR FOR PROPER RETURN CODE @DM14779 00771032
00B6BA 58D0 A004            00004 14997+         L     RD,PIBSAVE         RESTORE SAVE-AREA POINTER    @DM14779 00772032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
00B6BE 47F0 E41A      0BA56       14998+         B     RET16               ERROR EXIT: SET RETURNCODE   @DM12777 00773032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B6C2 4520 E4CE            0BB0A 15000+CDLDINIT BAL   LINKREG,GTVSINIT   BRANCH TO INITIALIZ. ROUTINE @DM14638 00778032
00B6C6 415C 0010            00010 15001+         LA    PHSNAME,16(ANCHBAS) POINT TO 1ST ENTRY           @DM14638 00784032

00B6CA D207 5000 9068 00000 00068 15003+CDLDMOVE MVC   0(8,PHSNAME),CALLNAME MOVE PHASENAME INTO ENTRY @DM12777 00800032
00B6D0 9200 5010      00010       15004+         MVI   STSW(PHSNAME),ZERO SET STATUS SWITCH FOR THIS   @DM12777 00802032
                                  15005+*                                 PHASENAME TO NOT LOADED      @DM12777 00804032
00B6D4 58B0 0844            00844 15006+         L     RB,HEX1000         RESTORE LOW CORE BASE        @D34RDFG 00806034
00B6D8 47F0 E0F0      0B72C       15007+         B     PHSLOAD1           LOAD PHASE IF POSSIBLE       @DM12777 00808032



00B6DC 4830 067E            0067E 15009+CDLDSETP LH    WORK1,PIK          SET UP POINTER TO ...        @DM12777 00822032
00B6E0 4A30 06CC            006CC 15010+         AH    WORK1,YPIB2TAB          ... PARTITION ...       @DM12777 00824032
00B6E4 BF33 3000            00000 15011+         ICM   WORK1,M3,PIBCOMRA-PIBADR(WORK1)   ... COMREG    @DM12777 00826032
00B6E8 9101 3086      00086       15012+         TM    ANCHTBYT-COMREG(WORK1),ANCHTBIT  ANCH.TAB BUILT @DM14638 00828032
00B6EC 0782                       15013+         BZR   LINKREG            NO, RETURN DISPL ZERO        @DM14638 00830032
00B6EE 58C3 0020            00020 15014+         L     ANCHBAS,IJBTOP-COMREG(WORK1)   END ADDR OF USER @DM14634 00832032
00B6F2 41CC 0001            00001 15015+         LA    ANCHBAS,1(ANCHBAS)   BUMP TO BEGIN OF GETVIS    @DM14634 00834032
00B6F6 415C 0010            00010 15016+         LA    PHSNAME,16(ANCHBAS)  POINT TO FIRST ENTRY       @DM12777 00836032
00B6FA 583C 0000            00000 15017+         L     WORK1,0(ANCHBAS)   POINT TO LAST ENTRY          @DM14638 00838032
00B6FE 47F2 0004      00004       15018+         B     4(LINKREG)         RETURN DISPL FOUR            @DM14638 00840032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            0B702 15020+PHSFND   EQU   * .PHASE SPECIFIED IN CDLOAD FOUND IN ANCHORTABLE     VD 00850029
00B702 58B0 0844                  00844 15021+           L     RB,HEX1000    .    RESTORE LOW CORE BASE        @D34RDFG 00855034
00B706 957F 5010            00010       15022+           CLI   STSW(PHSNAME),X'7F' .CHECK STATUS SWITCH       @DF00871 00860029
00B70A 4770 E0F0            0B72C       15023+           BNE   PHSLOAD1 .PHASE SHOULD BE LOADED IF POSSIBLE   @DF00871 00865029
                                        15024+           DROP  R9                                             @DL295HL 00870029
00B70E 1B00                             15025+           SR    R0,R0 .                                        @DL295HL 00880029
00B710 BF07 5011                  00011 15026+           ICM   R0,M7,PHSLEN(PHSNAME) LOAD PHASELENGTH         @DL295HL 00885029
00B714 9812 5008                  00008 15027+           LM    R1,R2,LOADPNT(PHSNAME) GET LOAD AND ENTRY POINT @DL295HL 00890029
00B718 5840 A004                  00004 15028+PHSALD     L     R4,PIBSAVE          POINT TO USER SAVE AREA  @DM14635 00891032
                                  00000 15029+           USING SVEARA,R4                                      @DM14635 00892032
00B71C 9012 402C                  0002C 15030+           STM   R1,R2,SVER00        STORE LOAD AND ENTRY POINT @DL295HL 00894032
                                        15031+*                                    INTO USER SAVE AREA        @DL295HL 00895029
00B720 5000 4024                  00024 15032+           ST    R0,SVER0E    .     STORE PHASELENGTH          @DL295HL 00900029
00B724 1BFF                             15033+           SR    RF,RF .                                        @DL295HL 00901029
00B726 50F0 4028                  00028 15034+           ST    RF,SVER0F .         STORE RETURN CODE          @DL295HL 00902029
00B72A 07F6                             15035+           BR    R6 .                RETURN TO SVC EXIT         @DL295HL 00905029
                                  0B72C 15036+PHSLOAD1 EQU   * . ONLY ENTERED IF A PHASE SHOULD BE LOADED     @DF00871 00910029
                                        15037+* THE SET AND TEST INSTRUCTION SET STSW TO X'FF' AFTER                VD 00920029
                                        15038+* TESTING THE STATUS SWITCH FIRST BIT                                00925029
00B72C 9300 5010            00010       15039+           TS    STSW(PHSNAME)                                  @DL295HL 00930029
00B730 4780 E11C            0B758       15040+           BZ    PHSLOAD . BRANCH TO LOAD EXECUTION             @DF00871 00935029
                                  0B734 15041+TSKWRSVC EQU   * .  ENTERED IF CDLOAD REFERES TO A PHASE WHICH IS    VD 00940029
                                        15042+*              JUST BEEING LOADED FROM ANOTHER TASK FROM THE SAME    VD 00945029
                                        15043+*              PARTITION. THESE TASK HAS TO SET WAITING AND          VD 00950029
                                        15044+*              REESVC.THEY HAS TO BE POSTED FROM FETCH EXIT.         VD 00955029
00B734 4830 067E                  0067E 15045+           LH    WORK1,PIK .  GET PARTITION IDENTIFIER                VD 00960029
00B738 8830 0003                  00003 15046+           SRL   WORK1,L3 .         GET PIK/8                     VD 00965029
00B73C 4133 0027                  00027 15047+           LA    WORK1,AMBNDBG-D2(WORK1) .  GET BNDCONDITION FOR TASK  VD 00970029
00B740 4143 08E6                  008E6 15048+           LA    WORK2,RETAB(WORK1) .  ADDR.OF CORRESPONDING TRT-BYTE  VD 00975029
00B744 9200 4000      00000       15049+           MVI   D0(WORK2),ZERO .  CLOSE GATE                           VD 00980029
00B748 4850 0752                  00752 15050+           LH    WORK3,TIK .  CALCULATE AS POINTER                    VD 00985029
00B74C 4A50 06AA                  006AA 15051+           AH    WORK3,YPIBTAB .  WORK3=PIK+YPIBTAB                   VD 00990029
00B750 4235 0000                  00000 15052+           STC   WORK1,D0(WORK3) . SET TASK RESOURCE BOUND            VD 00995029
                                  00000 15053+           USING SYSS00,R0,RB       REEST.LOW CORE ADDRESSABILITY@D34RDFG 01000034
00B754 47F0 0FD6      00FD6       15054+           B     RESVCNOX .                                           @DM01378 01005029
                                  0B758 15055+PHSLOAD  EQU   * .     THE PHASE HAS TO BE LOADED               @DF00871 01030029
                                        15056+           DROP  R4                                                    01035029
                                  00000 15057+           USING SVEARA,R9                                             01040029
00B758 5050 9054                  00054 15058+           ST    PHSNAME,ANCSAV .   SAVE PTR TO ANCHTAB ENTRY    @DL295HL 01041029
                                        15059+*                                    LENGTH INTO R0 FOR GETVIS    @DL295HL 01045029
00B75C 4800 9074                  00074 15060+           LH    R0,ENTRYTT .       NUMBER OF TEXT BLOCKS         @DL295HL 01050029
00B760 0600                             15061+           BCTR  R0,R0 .            IGNORE LAST BLOCK             @DL295HL 01055029
00B762 8B00 000A                  0000A 15062+           SLA   R0,L10 .           NO. OF BYTES (1K PER BLOCK)   @DL295HL 01060029
00B766 4A00 9076                  00076 15063+           AH    R0,ENTRYLL .       TOTAL INCL. LAST BLOCK        @DL295HL 01065029
                                        15064+*  ( R9 AND RA ARE NOT DESTROYED BY GETVIS )                      @DL295HL 01070029
00B76A 4560 E1E8                  0B824 15065+           BAL   R6,GETVIS .        GET VIRTUAL AREA              @DL295HL 01075029
00B76E 5860 086C                  0086C 15066+           L     R6,DISPAD          LOAD BASE FOR DISPATCHER      @DM05356 01080033
00B772 58B0 0844                  00844 15067+           L     RB,HEX1000    .    RELOAD LOW CORE BASE          @D34RDFG 01085034
00B776 1801                             15068+           LR    R0,R1 .            SAVE LOAD ADDR FOR NEXT LOAD  @DL295HL 01090029
00B778 5850 9054                  00054 15069+           L     PHSNAME,ANCSAV .   RELOAD ANCH TAB POINTER       @DL295HL 01095029
00B77C 12FF                             15070+           LTR   RF,RF .            TEST RETURN CODE OF GETVIS    @DL295HL 01100029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B77E 4780 E14E      0B78A        15071+         BZ    GETVAR1 .           BRANCH IF NO ERROR           @DL295HL 01105029
00B782 D713 5000 5000 00000 00000 15072+         XC    0(ENTRYL,PHSNAME),0(PHSNAME)   FORCE REREAD  @DY11138 01107034
00B788 07F6                       15073+         BR    R6 .                RETURN TO USER               @DL295HL 01115029
                            0B78A 15074+GETVAR1  EQU   *                                               @DL295HL 01120029
00B78A 4530 E1C4            0B800 15075+         BAL   R3,TSTFBND .        TEST IF FETCH BUSY AND SET   @DL295HL 01125029
                                  15076+*                                  TASK BOUND IF YES            @DL295HL 01130029
                                  15077+*                                  ELSE BUILD CALLING SEQUENCE  @DL295HL 01135029
00B78E 9602 E1E4      0B820        15078+         OI    CDLCALLS+D4,DENTRY  WITH DE=YES,TXT=YES          @DL295HL 01140029
00B792 5880 0708            00708 15079+         L     R8,AFETCH           ADDRESS FETCH ROUTINE        @DL29ZCF 01142029
00B796 0598                       15080+         BALR  R9,R8               AND LOAD PHASE               @DL29ZCF 01145029
00B798 9283 A000      00000        15081+         MVI   PIBFLG,READY .      MAKE TASK READY TO RUN       @DL295HL 01150029
00B79C 58E0 0788            00788 15082+         L     RE,AMCOM .                                       @DL295HL 01155029
00B7A0 58E0 E000            00000 15083+         L     RE,D0(0,RE) .       RELOAD BASE REG OF CDLOAD    @DL295HL 01160029
00B7A4 5890 A008            00008 15084+         L     R9,PIBSAV2 .        POINT TO SYSTEM SAVE AREA    @DL295HL 01165029
00B7A8 5850 9054            00054 15085+         L     PHSNAME,ANCSAV .    RELOAD ANCHTAB POINTER       @DL295HL 01170029
00B7AC 1BFF                       15086+GPARMTRS SR    RF,RF .                                          @DL295HL 01180029
00B7AE 183F                       15087+         LR    R3,RF .             GET DIFF BETWEEN             @DL295HL 01190029
00B7B0 BFF7 907A            0007A 15088+         ICM   RF,M7,ENTRYPPP .    LOAD POINT                   @DL295HL 01200029
00B7B4 BF37 907D            0007D 15089+         ICM   R3,M7,ENTRYEEE .    AND ENTRY POINT              @DL295HL 01210029
00B7B8 1B3F                       15090+         SR    R3,RF .             FROM DIRECTORY ENTRY         @DL295HL 01220029
                                  15091+*        GET LENGTH OF PHASE                                    @DL295HL 01222029
00B7BA 4800 9074            00074 15092+         LH    R0,ENTRYTT .        NUMBER OF TEXT BLOCKS        @DL295HL 01230029
00B7BE 0600                       15093+         BCTR  R0,R0 .             IGNORE LAST BLOCK            @DL295HL 01240029
00B7C0 8B00 000A            0000A 15094+         SLA   R0,L10 .            NO. OF BYTES (1K PER BLOCK)  @DL295HL 01250029
00B7C4 4A00 9076            00076 15095+         AH    R0,ENTRYLL .        TOTAL INCL. LAST BLOCK       @DL295HL 01260029
00B7C8 1812                       15096+         LR    R1,R2 .                                          @DL295HL 01265029
00B7CA 1B13                       15097+         SR    R1,R3 .             GET NEW LOAD POINT           @DL295HL 01266029
00B7CC 9110 9078      00078       15098+         TM    ENTRYC,SVAPHASE .   PHASE FOUND IN SVA           @DL295HL 01270029
00B7D0 4710 E0DC      0B718       15099+         BO    PHSALD .            YES, BRANCH                  @DL295HL 01280029
00B7D4 BE07 5011            00011 15100+         STCM  R0,M7,PHSLEN(PHSNAME) STORE PHASE LENGTH INTO  @DL295HL 01290029
                                  15101+*                                  ANCHOR TABLE ENTRY           @DL295HL 01300029
00B7D8 5025 000C            0000C 15102+         ST    R2,ENTRPNT(PHSNAME) STORE ENTRY POINT            @DL295HL 01310029
00B7DC 5015 0008            00008 15103+         ST    R1,LOADPNT(PHSNAME) AND LOAD POINT INTO          @DL295HL 01330029
                                  15104+*                                  ANCHOR TABLE ENTRY           @DL295HL 01340029
00B7E0 927F 5010      00010       15105+         MVI   STSW(PHSNAME),X'7F'      SET STATUS SWITCH TO   @DL295HL 01350029
                                  15106+*                                       'PHASE LOADED'          @DL295HL 01360029
00B7E4 47F0 E0DC      0B718       15107+         B     PHSALD .                                         @DL295HL 01380029




                                  15109+*                                                                01470029
                                  15110+*        THIS SUBROUTINE TESTS WETHER THE FETCH TASK IS BUSY      01480029
                                  15111+*        IF YES, THE TASK WHICH HAS ISSUED CDLOAD IS SET TO WAIT STATE  01490029
                                  15112+*        ELSE THE CALLING PARAMETERS ARE SET UP                  01500029
                                  15113+*                                                                01510029
                            0B7E8 15114+SETTBND  EQU   * .                                               @DL295HL 01520029
00B7E8 926F A000      00000       15115+         MVI   PIBFLG,IDRABND .    SET TASK IDRA BOUND          @DL295HL 01570029
00B7EC 58E0 0778            00778 15116+         L     RE,APMGR .                                       @DL295HL 01590029
00B7F0 45CE 0282            00282 15117+         BAL   RC,RWAIT-PMGRADR(RE)     SET TASK TO WAIT STATE  @DL295HL 01600029
00B7F4 58B0 0844            00844 15118+         L     RB,HEX1000    .     RESTORE LOW CORE BASE        @D34RDFG 01610034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B7F8 58E0 0788            00788 15119+         L     RE,AMCOM .                                          @DL295HL 01620029
00B7FC 58E0 E000            00000 15120+         L     RE,D0(0,RE) .      RELOAD BASE REG OF CDLOAD        @DL295HL 01630029
                            0B800 15121+TSTFBND  EQU   * .  ENTRY POINT OF THIS SUBROUTINE                  @DL295HL 01640029
00B800 9500 0955      00955       15122+         CLI   TRTIDRA,ZERO .     IF FETCH BUSY                    @DL295HL 01690029
00B804 4780 E1AC      0B7E8       15123+         BE    SETTBND .          BRANCH                           @DL295HL 01710029
00B808 4120 9068            00068 15124+         LA    R2,CALLNAME .      POINT TO DIR ENTRY               @DL295HL 01720029
00B80C D707 E1E0 E1E0 0B81C 0B81C 15125+         XC    CDLCALLS,CDLCALLS .  CLEAR PARAMETER FIELD          @DL295HL 01730029
00B812 4110 E1E0            0B81C 15126+         LA    R1,CDLCALLS .      POINT TO PARAMETER FIELD         @DL295HL 01740029
00B816 5020 E1E0            0B81C 15127+         ST    R2,CDLCALLS .      STORE POINTER TO DIR ENTRY       @DL295HL 01750029
00B81A 07F3                       15128+         BR    R3 .               RETURN                           @DL295HL 01760029
00B81C                            15129+         DS    0F                 ALIGNMENT                        @DM12777 01761032
00B81C                            15130+CDLCALLS DS    CL8 .              WILL CONTAIN CALLING             @DL295HL 01762029
                                  15131+*                                 SEQUENSE FOR FETCH               @DL295HL 01764029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 15134+*************************************************************************RZ 02450028
                                 15135+*                                                                       RZ 02500028
                                 15136+*                                                                       RZ 02550028
                                 15137+*        GETVIS/FREEVIS ROUTINES                                        RZ 02600028
                                 15138+*                                                                       RZ 02650028
                                 15139+*                                                                       RZ 02700028
                                 15140+*************************************************************************RZ 02750028
                                 15141+*        GETVIS/FREEVIS ARE USED TO GET/RELEASE VIRTUAL STORAGE            02751029
                                 15142+*        IN THE GETVIS AREA OF THE USER PARTITION OR OF THE SVA.           02752029
                                 15143+*        THE GETVIS AREA IS MAPPED ON A BITSTRING (VISTAB).                02753029
                                 15144+*        EACH BIT REPRESENTS 128 BYTES OF VIRTUAL STORAGE                  02754029
                                 15145+*        IN THE USER GETVIS AREA OR 512 BYTES IN THE SVA.                  02755029
                                 15146+*        THE VISTAB IS LOCATED ON THE FIRST PAGE OF THE                    02756029
                                 15147+*        GETVIS AREA IN A USER'S PARTITION OR ON THE FIRST AND             02757029
                                 15148+*        SECOND PAGE IN THE GETVIS AREA OF THE SVA.                        02758029
                                 15149+*        THE MAXIMUM SIZE OF THE VISTAB FOR A USER PARTITION IS            02759029
                                 15150+*        994 BYTES REPRESENTING 1017856 BYTES OF VIRTUAL STORAGE.          02760029
                                 15151+*        THE VISTAB OF THE SVA REPRESENTS UP TO 12460032 BYTES.            02761029
                                 15152+*                                                                       RZ 03100028
                                 15153+*                                                                       RZ 03150028
                                 15154+*                                                                       RZ 03200028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0B824 15156+GETVIS   EQU   * .                                                    RZ 03250028
                           00000 15157+         USING SVEARA,SVAREG .    SET BASE FOR SAVE AREA               WF 03260028
                           00000 15158+         USING ANCHTAB,ANCHBAS .                                @DL295HL 03270029
00B824 4520 E4CE           0BB0A 15159+         BAL   LINKREG,GTVSINIT . CHECK SOME ERRORS                    RZ 03300028
                                 15160+*        ALL ADDRESSES NOW O.K.                                       RZ 03350028
                                 15161+*                                                                     RZ 03400028
                                 15162+*        SEARCH A BITSTRING                                           RZ 03450028
                                 15163+*                                                                     RZ 03500028
                                 15164+*                                                                     RZ 03550028
                                 15165+*        THIS ROUTINE SEARCHES A BITSTRING OF '0'S OF THE REQUIRED     RZ 03600028
                                 15166+*        LENGTH CONTAINED IN REG 0 (# OF '0' BITS = (CONTENTS         RZ 03650029
                                 15167+*        OF REG 0 + 127)/128).THE SEARCH STARTS AT THE CURRENT        RZ 03700029
                                 15168+*        POINTER AND CONTINUES UNTIL A BITSTRING IS FOUND OR THE      RZ 03750028
                                 15169+*        VISTAB IS EXHAUSTED.THE CURRENT POINTER IS INITIALIZED       RZ 03800028
                                 15170+*        WITH THE START ADDRESS OF THE VISTAB AND IS UPDATED BY       RZ 03850028
                                 15171+*        EACH GETVIS REQUEST WITH THE LAST OCCUPIED ADDRESS IN THE    RZ 03900028
                                 15172+*        VISTAB.IF POOL WAS SPECIFIED,THE ADDRESS PASSED IN REG 1     RZ 03950028
                                 15173+*        IS USED TO CALCULATE A NEW CURRENT POINTER.                  RZ 04000028
                                 15175+*        TEST LENGTH CORRECT                                          RZ 04100028
00B828 1200                      15177+         LTR   REG0,REG0 .                                            RZ 04150028
00B82A 4740 E41E      0BA5A      15178+         BM    RET12 .            NEGATIVE,ERROR                      RZ 04200028
00B82E 5830 C404           00404 15179+         L     WORK1,EVIRTMEM .   TEST                               RZ 04250028
00B832 5B30 C400           00400 15180+         S     WORK1,BVIRTMEM .   LENGTH                             RZ 04300028
00B836 4133 0001           00001 15181+         LA    WORK1,1(WORK1) .                                          04310029
00B83A 1903                      15182+         CR    REG0,WORK1 .       EXCEEDS                          RZ 04350028
00B83C 4720 E41E      0BA5A      15183+         BH    RET12 .            GETVIS AREA                      RZ 04400028
                                 15185+*                                                                     RZ 04450028
                                 15186+*        IF POOL WAS SPECIFIED,SET NEW CURRENT POINTER                RZ 04500028
                                 15187+*                                                                     RZ 04550028
00B840 9102 D02B      0002B      15189+         TM    SVER0F+3,POOLIND .   TEST POOL SPECIFIED               RZ 04600028
00B844 47E0 E244      0B880      15190+         BNO   GETVIS1 .          NO,CONTINUE                 @DL295HL 04650029
                                 15192+*                                                                     RZ 04700028
                                 15193+*        TEST POOLADDRESS WITHIN GETVIS AREA                          RZ 04750028
                                 15194+*                                                                     RZ 04800028
00B848 5910 C404           00404 15196+         C     REG1,EVIRTMEM .                                           04850029
00B84C 47B0 E244      0B880      15197+         BNL   GETVIS1 .          OUT OF AREA,IGNORE          @DL295HL 04900029
00B850 5B10 C400           00400 15198+         S     REG1,BVIRTMEM .                                      RZ 04950028
00B854 4740 E244      0B880      15199+         BM    GETVIS1 .          OUT OF AREA,IGNORE          @DL295HL 05000029
                                 15201+*                                                                     RZ 05050028
                                 15202+*        CALCULATE NEW CURRENT POINTER                                RZ 05100028
                                 15203+*                                                                     RZ 05150028
00B858 1841                      15204+         LR    R4,REG1 .          GET START ADDRESS           @DL295HL 05160029
00B85A 8E40 B00A           0000A 15205+         SRDA  R4,LDVBYTB(MODREG) .     DIVIDE BY VIRT. SIZE  @DL295HL 05200029
                                 15206+*                                 REPRESENTEDBY  ONE BYTE IN VISTAB    05250029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B85E 5A40 C408            00408 15207+         A     R4,BVISTAB .       ADD START ADDRESS OF VISTAB  @DL295HL 05300029
00B862 5040 C410            00410 15208+         ST    R4,CURPOINT .      AND SAVE AS CURRENT POINTER  @DL295HL 05350029
                                  15209+*                                                                RZ 05400028
00B866 8850 001D            0001D 15210+         SRL   R5,29 .            GET BIT -DISPL IN CURPOINT   @DL295HL 05410029
00B86A 4110 00FF            000FF 15211+         LA    REG1,XFF .                                     @DL295HL 05415029
00B86E 4130 0008            00008 15212+         LA    WORK1,8 .          GET BIT MASK FOR 1ST BYTE    @DL295HL 05420029
00B872 1B35                       15213+         SR    WORK1,R5 .         (CURPOINT) IN LOW ORDER BYTE @DL295HL 05425029
00B874 8910 3018            00018 15214+         SLL   REG1,24(WORK1) .   OF REG1 WITH THE BITS OFF    @DL295HL 05430029
00B878 8810 0018            00018 15215+         SRL   REG1,24 .          WHERE GETVIS SHOULD START    @DL295HL 05435029
00B87C 47F0 E246      0B882       15216+         B     GETVIS2 .          SEARCHING FOR FREE SPACE     @DL295HL 05440029
                            0B880 15217+GETVIS1  EQU   *                                              @DL295HL 05450029
00B880 1B11                       15218+         SR    REG1,REG1 .        CLEAR REGISTER               @DL295HL 05460029
                            0B882 15219+GETVIS2  EQU   *                                                   RZ 05470029
                                  15220+*        NOW INITIATE SOME REGISTERS                               RZ 05500028
                                  15221+*        REG 0 CONTAINS THE REQUIRED LENGTH                        RZ 05550028

00B882 1B88                       15223+         SR    CREG,CREG .        CLEAR COUNTER                     RZ 05600028
00B884 1B33                       15224+         SR    WORK1,WORK1 .                                        RZ 05650028
00B886 5030 C418            00418 15225+         ST    WORK1,SVWORK1 .                                      RZ 05700028
00B88A 5870 C410            00410 15226+         L     PREG,CURPOINT .    LOAD START ADDRESS OF SEARCH      RZ 05750028
00B88E 5970 C40C            0040C 15227+         C     PREG,EVISTAB  .    TEST CURRENT POINTER VALID        RZ 05800028
00B892 47C0 E25E            0B89A 15228+         BC    LE,*+8 .           YES                               RZ 05850028
00B896 5870 C408            00408 15229+GETVIS20 L     PREG,BVISTAB .     NO,START SEARCH AT BEGIN OF VISTAB RZ 05900028
00B89A 5070 C414            00414 15230+         ST    PREG,SSEARCH .     SAVE START POINT                  RZ 05950028
00B89E 12BB                       15231+         LTR   MODREG,MODREG      REQUEST FOR SVA?             @DA09013 05956034
00B8A0 4770 E276      0B8B2       15232+         BNZ   GETVIS21           YES, SKIP PAGE TESTING       @DA09013 05958034
00B8A4 9101 D02B      0002B       15233+         TM    SVER0F+D3,PAGEIND  TEST PAGE REQUIRED          @DA04318 05960031
00B8A8 4780 E276      0B8B2       15234+         BZ    GETVIS21           NO                           @DA09854 05970034
00B8AC 0670                       15235+         BCTR  PREG,R0            -1 FOR CORRECT START ADDR    @DA09854 05980034
00B8AE 47F0 E32C      0B968       15236+         B     GETVS271           CHECK FOR EVEN ADDR          @DA09854 05990034
00B8B2 5970 C40C            0040C 15237+GETVIS21 C     PREG,EVISTAB .     TEST END OF VISTAB                RZ 06000028
00B8B6 47C0 E2A0            0B8DC 15238+         BC    LE,GETVIS22 .      NO,CONTINUE SEARCH                WF 06050028
00B8BA D503 C410 C40C 00410 0040C 15239+         CLC   CURPOINT,EVISTAB . WAS CURRENT POINTER VALID          RZ 06100028
00B8C0 4720 E41E      0BA5A       15240+         BH    RET12 .            NO,BITSTRING NOT FOUND            RZ 06150028
00B8C4 5840 C40C            0040C 15241+         L     WORK2,EVISTAB .    SET CURRENT POINTER               RZ 06200028
00B8C8 4144 0001            00001 15242+         LA    WORK2,1(WORK2) .   INVALID                           RZ 06250028
00B8CC 5040 C410            00410 15243+         ST    WORK2,CURPOINT .                                     RZ 06300028
00B8D0 1B88                       15244+         SR    CREG,CREG .        CLEAR COUNTER                     WF 06310029
00B8D2 5080 C418            00418 15245+         ST    CREG,SVWORK1 .     INDICATE START SEARCH IN BIT # 0     06320029
00B8D6 1B33                       15246+         SR    WORK1,WORK1 .      CLEAR WORK REGISTER                  06330029
00B8D8 47F0 E25A      0B896       15247+         B     GETVIS20 .         START SEARCH AT BEGIN OF VISTAB   RZ 06350028
                            0B8DC 15248+GETVIS22 EQU   * .                                                 RZ 06400028
00B8DC 4150 00FF            000FF 15249+         LA    WORK3,XFF .                                    @DL295HL 06405029
00B8E0 1B44                       15250+         SR    WORK2,WORK2 .      CLEAR R4                          WF 06510029
00B8E2 4347 0000            00000 15251+         IC    WORK2,0(PREG) .    GET BYTE FROM VISTAB              RZ 06550028
                            0B8E6 15252+PCKGVIS1 EQU   *                  IF ANCHOR TABLE OVERLAYED    @DY11894 06552034
00B8E6 1641                       15253+         OR    WORK2,REG1 .       OR MASK FOR 1ST BYTE         @DL295HL 06555029
00B8E8 1B11                       15254+         SR    REG1,REG1 .        CLEAR MASK                   @DL295HL 06560029
00B8EA 1945                       15255+         CR    WORK2,WORK3 .      TEST BYTE IN VISTAB          @DL295HL 06565029
00B8EC 4780 E2EA      0B926       15256+         BE    GETVIS25 .         IF X'FF',NO SPACE AVAILABLE  @DL295HL 06570029
00B8F0 8B40 0017            00017 15257+         SLA   WORK2,BITREG-BITBYT-1 .SHIFT INTO CORRECT POSITION   RZ 06600028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00B8F4 8B40 0001            00001 15258+GETVIS23 SLA   WORK2,1 .          SHIFT LEFT TO TEST OVERFLOW        RZ 06650028
00B8F8 4133 0001            00001 15259+         LA    WORK1,1(WORK1) .   COUNT # OF SHIFTS                  RZ 06700028
00B8FC 4710 E2EE            0B92A 15260+         BC    O,GETVIS26 .       TEST OVERFLOW FROM SHIFT           RZ 06750028
00B900 4188 0080            00080 15261+         LA    CREG,VBYTBI(CREG) .INCREASE COUNTER                   RZ 06800028
00B904 12BB                       15262+         LTR   MODREG,MODREG .    REQUEST FOR SVA?                      06810029
00B906 4780 E2D2      0B90E       15263+         BZ    *+8 .              NO,CONTINUE NORMAL                    06820029
00B90A 4188 0180            00180 15264+         LA    CREG,VBYTSV-VBYTBI(CREG) .YES,INCREASE BY 512         06830029
00B90E 1980                       15265+         CR    CREG,REG0 .        CHECK LENGTH SUFFICIENT            RZ 06850028
00B910 47B0 E34E            0B98A 15266+         BC    NL,GETVIS3 .       GO CALCULATE ADDRESS               RZ 06900028
00B914 4930 C41C            0041C 15267+         CH    WORK1,YBITBYT .    TEST BYTE ALREADY EXHAUSTED        RZ 06950028
00B918 4740 E2B8            0B8F4 15268+         BC    L,GETVIS23 .       NO,CONTINUE SHIFT                  RZ 07000028
00B91C 1B33                       15269+         SR    WORK1,WORK1 .      YES,CLEAR SHIFT COUNTER            RZ 07050028
00B91E 4177 0001            00001 15270+         LA    PREG,1(PREG) .     INCREASE POINTER                   RZ 07100028
00B922 47F0 E276      0B8B2       15271+         B     GETVIS21 .         AND CONTINUE SEARCH                RZ 07150028
00B926 4830 C41C            0041C 15272+GETVIS25 LH    WORK1,YBITBYT .    SET SHIFT COUNTER TO INDICATE      RZ 07200028
                                  15273+*                                 BYTE EXHAUSTED                     RZ 07250028
00B92A 1B88                       15274+GETVIS26 SR    CREG,CREG .        CLEAR COUNTER                      RZ 07300028
00B92C 9101 D02B      0002B       15275+         TM    SVER0F+3,PAGEIND . TEST PAGE REQUIRED                 RZ 07350028
00B930 4710 E30C      0B948       15276+         BO    GETVIS27 .         YES                                RZ 07400028
00B934 4930 C41C            0041C 15277+         CH    WORK1,YBITBYT .    NO,TEST BYTE EXHAUSTED             RZ 07450028
00B938 47A0 E33C            0B978 15278+         BC    HE,GETVIS28 .      YES                                RZ 07500028
00B93C 5070 C414            00414 15279+GETVS272 ST    PREG,SSEARCH .     NO,CONTINUE SEARCH IN THIS BYTE       07510029
00B940 5030 C418            00418 15280+         ST    WORK1,SVWORK1 .    SAVE NEW SEARCH START ADDRESS      RZ 07600028
00B944 47F0 E2B8      0B8F4       15281+         B     GETVIS23 .         CONTINUE SEARCH                    RZ 07650028
                            0B948 15282+GETVIS27 EQU   *                                          @DM09681 07652030
00B948 12BB                       15283+         LTR   MODREG,MODREG .    REQUEST FOR SVA?                  @DM09681 07660030
00B94A 4780 E32C      0B968       15284+         BZ    GETVS271 .         NO,CONTINUE NORMAL                    07670029
00B94E 1133                       15285+         LNR   WORK1,WORK1 .      GET NEGATIVE SHIFT COUNT              07680029
                                  15286+*                                 FOR FOLLOWING SHIFT                   07690029
00B950 8B40 3004            00004 15287+         SLA   WORK2,PBSVA(WORK1) . SHIFT BYTE TO NEXT HALFWORD       07692029
                                  15288+*         BOUNDARY IF SHIFT COUNT LE 4                                  07694029
                                  15289+*         IF SHIFT COUNT GT 4,SHIFT BYTE OUT OF REGISTER                07696029
00B954 1033                       15290+         LPR   WORK1,WORK1 .      RESTORE SHIFT COUNT                   07698029
00B956 1A33                       15291+         AR    WORK1,WORK1 .      TEST SHIFT COUNT                      07698429
00B958 4930 C41C            0041C 15292+         CH    WORK1,YBITBYT .     GRATER THAN 4                        07698829
00B95C 4720 E33C      0B978       15293+         BH    GETVIS28 .         YES,TAKE NEXT BYTE FROM VISTAB        07699229
00B960 4130 0004            00004 15294+         LA    WORK1,PBSVA .      NO,TAKE 2ND HALFBYTE                  07699629
00B964 47F0 E300      0B93C       15295+         B     GETVS272 .          AND CONTINUE SEARCH                  07699729
00B968 4177 0002            00002 15296+GETVS271 LA    PREG,2(PREG) .     INCREASE POINTER                   RZ 07700029
00B96C 8A70 0001            00001 15297+         SRA   PREG,1 .           FORCE EVEN ADDRESS                 RZ 07750028
00B970 8B70 0001            00001 15298+         SLA   PREG,1 .           FOR PAGE BOUNDARY                  RZ 07800028
00B974 47F0 E340      0B97C       15299+         B     GETVIS29 .         CONTINUE SEARCH                    RZ 07850028
00B978 4177 0001            00001 15300+GETVIS28 LA    PREG,1(PREG) .     INCREASE POINTER                   RZ 07900028
00B97C 1B33                       15301+GETVIS29 SR    WORK1,WORK1 .      CLEAR SHIFT COUNTER                RZ 07950028
00B97E 5030 C418            00418 15302+         ST    WORK1,SVWORK1 .    AND SAVE                           RZ 08000028
00B982 5070 C414            00414 15303+         ST    PREG,SSEARCH .     SEARCH START ADDRESS               RZ 08050028
00B986 47F0 E276      0B8B2       15304+         B     GETVIS21 .                                            RZ 08100028


                                  15306+*                                                                     RZ 08150028
                                  15307+*         CALCULATE VIRTUAL ADDRESS                                   RZ 08200028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   15308+*        SSEARCH CONTAINS START ADDRESS OF BITSTRING IN VISTAB       RZ 08250028
                                   15309+*        SVWORK1 CONTAINS BIT #                                      RZ 08300028
                                   15310+*                                                                    RZ 08350028

                             0B98A 15312+GETVIS3  EQU   * .                                                   RZ 08400028
00B98A 5070 C410             00410 15313+         ST    PREG,CURPOINT .    SAVE LAST POSITION IN VISTAB       RZ 08450028
00B98E 5840 C414             00414 15314+         L     WORK2,SSEARCH .    GET START ADDRESS                  RZ 08500028
00B992 5B40 C408             00408 15315+         S     WORK2,BVISTAB .    SUBTRACT START ADDRESS OF VISTAB   RZ 08550028
00B996 8B40 B00A             0000A 15316+         SLA   WORK2,LDVBYTB(MODREG) .    MULTIPLY  BY VIRT. SIZE/BYTE  08600029
00B99A 5A40 C400             00400 15317+         A     WORK2,BVIRTMEM .   ADD START ADDRESS OF GETVIS AREA   RZ 08650028
00B99E 5850 C418             00418 15318+         L     WORK3,SVWORK1 .    GET BIT #                          RZ 08700028
00B9A2 8B50 B007             00007 15319+         SLA   WORK3,LDVBYTBI(MODREG) .   MULTIPLY BY VIRT. SIZE/BIT    08750029
00B9A6 1A45                        15320+         AR    WORK2,WORK3 .      AND ADD                            RZ 08800028
                                   15321+*        SAVE ADDRESS IN REG 1 IN USERS SAVE AREA                    RZ 08850028
00B9A8 5040 D030             00030 15322+         ST    WORK2,SVER01 .                                        RZ 08900028
00B9AC 1200                        15323+         LTR   0,0 .              TEST LENGTH FOR ZERO                  08910029
00B9AE 4780 E382      0B9BE        15324+         BZ    GETVIS31 .         YES,BYPASS SUBROUTINE                 08920029
00B9B2 4100 00FF             000FF 15325+         LA    0,X'FF' .          FOR FURTHER PROCESSING             RZ 08950028
00B9B6 4520 E436             0BA72 15326+         BAL   LINKREG,GETVISB .  OCCUPY STORAGE AREA BY             RZ 09000028
                                   15327+*                                 SETTING BITSTRING TO '1'           RZ 09050028
00B9BA 5810 D030             00030 15328+         L     1,SVER01 .         LOAD INTO REG 1 FOR SVC ROUTINES   RZ 09100028
00B9BE 47F0 E42A      0BA66        15329+GETVIS31 B     RET0 .             SET RC AND RETURN TO CALLER        RZ 09150028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 15331+*                                                                  RZ 09200028
                                 15332+*                                                                  RZ 09250028
                                 15333+*        FREEVIS IS USED TO RELEASE A STORAGE AREA THAT WAS        RZ 09300028
                                 15334+*        OCCUPIED BY A PREVIOUS GETVIS                             RZ 09350028
                                 15335+*                                                                  RZ 09400028

                          0B9C2  15337+FREEVIS  EQU   * .                ENTRY POINT                       RZ 09450028

00B9C2 4520 E4CE                 0BB0A 15339+         BAL   LINKREG,GTVSINIT .                            RZ 09550028
                                 15340+*        SOME ERROR CHECKING IS THE SAME AS IN GETVIS              RZ 09600028
                                 15341+*        REQUEST WAS FROM A VIRT. PARTITION                        RZ 09650028
                                 15342+*        SIZE WAS SPECIFIED                                        RZ 09700028
                                 15343+*                                                                     09701029

                                 15345+*                                                                     09710029
                                 15346+*        NOW CHECK LENGTH                                             09720029
                                 15347+*                                                                     09730029

00B9C6 1200                      15349+         LTR   R0,R0 .           IS LENGTH NEGATIVE?                 09740029
00B9C8 4740 E41A      0BA56      15350+         BM    RET16 .           YES,WILL GIVE AN ERROR              09742029

                                 15352+*                                                                     09744029
                                 15353+*        NOW CHECK ADDRESS (CONTAINED IN REG 1)                    RZ 09750028
                                 15354+*                                                                     09750229

00B9CC 5910 C400                 00400 15356+         C     REG1,BVIRTMEM .   CHECK START ADDRESS             RZ 09800028
00B9D0 4740 E41E      0BA5A      15357+         BL    RET12 .           ADDRESS                             RZ 09850028
00B9D4 5910 C404                 00404 15358+         C     REG1,EVIRTMEM .   NOT WITHIN                      RZ 09900028
00B9D8 4720 E41E      0BA5A      15359+         BH    RET12 .           GETVIS AREA                         RZ 09950028
00B9DC 1B55                      15360+         SR    WORK3,WORK3 .     WORK REGISTERS                      RZ 10050028
00B9DE 1841                      15361+         LR    WORK2,REG1 .      GET START ADDRESS INTO WORK REG     RZ 10100028
00B9E0 8E40 B007                 00007 15362+         SRDA  WORK2,LDVBYTBI(MODREG) .   TEST ADDRESS MULTIPLE      10150029
00B9E4 1255                      15363+         LTR   WORK3,WORK3 .     OF VIRT. SIZE/BIT                   RZ 10200028
00B9E6 4770 E41E      0BA5A      15364+         BNZ   RET12 .           NO,ERROR                            RZ 10250028
00B9EA 8B40 B007                 00007 15365+         SLA   WORK2,LDVBYTBI(MODREG) .   RESTORE ADDRESS          10300029
00B9EE 5B40 C400                 00400 15366+         S     WORK2,BVIRTMEM . CALCULATE START ADDRESS OF BITSTRING RZ 10350028
00B9F2 8E40 B00A                 0000A 15367+         SRDA  WORK2,LDVBYTB(MODREG) . DIVIDE BY SIZE OF VIRT.MEM/BYTE  10400029
00B9F6 5A40 C408                 00408 15368+         A     WORK2,BVISTAB .   ADD START ADDRESS OF VISTAB        10410028
00B9FA 5040 C414                 00414 15369+         ST    WORK2,SSEARCH .   SAVE START ADDRESS OF BITSTRING   RZ 10450028
00B9FE 8850 001D                 0001D 15370+         SRL   WORK3,BITREG-(LDVBYTB-LDVBYTBI) .GET BIT #          RZ 10500028
00BA02 5050 C418                 00418 15371+         ST    WORK3,SVWORK1 .   AND SAVE IT                     RZ 10550028
00BA06 1841                      15372+         LR    WORK2,REG1 .      GET END ADDRESS                     RZ 10600028
00BA08 0640                      15373+         BCTR  WORK2,0 .                                             RZ 10700028
00BA0A 1A40                      15374+         AR    WORK2,REG0 .      OF AREA TO BE RELEASED              RZ 10710029
00BA0C 1244                      15375+         LTR   WORK2,WORK2 .     TEST INVALID END ADDRESS               10720029
00BA0E 4740 E41A      0BA56      15376+         BM    RET16 .           YES,ERROR                              10730029
00BA12 5540 C404                 00404 15377+         CL    WORK2,EVIRTMEM .OUTSIDE GETVIS AREA OR R1 NEG.? @DA01550 10750028
00BA16 4720 E41A      0BA56      15378+         BH    RET16 .          YES, ERROR                    @DA01550 10800028
00BA1A 4144 0080                 00080 15379+         LA    WORK2,VBYTBI(WORK2) .ROUND TO NEXT                 RZ 10850028
00BA1E 12BB                      15380+         LTR   MODREG,MODREG .   REQUEST FOR SVA?                       10860029
00BA20 4780 E3EC      0BA28      15381+         BZ    *+8 .             NO                                    10870029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00BA24 4144 0180            00180 15382+         LA    WORK2,VBYTSV-VBYTBI(WORK2) .YES,ROUND TO MULTIPLE OF 512 10880029
00BA28 8A40 B007            00007 15383+         SRA   WORK2,LDVBYTBI(MODREG) .  CLEAR LOW                      10930029
00BA2C 8B40 B007            00007 15384+         SLA   WORK2,LDVBYTBI(MODREG) .    ORDER BYTES                   10980029
00BA30 5B40 C400            00400 15385+         S     WORK2,BVIRTMEM .  SUBTR. START ADDRESS OF GETVIS AREA RZ 11000028
00BA34 1B55                       15386+         SR    WORK3,WORK3 .      CLEAR WORK REGISTER                   11010028
00BA36 8E40 B00A            0000A 15387+         SRDA  WORK2,LDVBYTB(MODREG)  .   DIVIDE BY SIZE/BYTE          11050029
00BA3A 5A40 C408            00408 15388+         A     WORK2,BVISTAB  .   ADD START ADDRESS OF VISTAB        RZ 11100028
00BA3E 1874                       15389+         LR    PREG,WORK2 .       GET INTO PREG FOR FOLLOWING        RZ 11150028
                                  15390+*                                 RESET SUBROUTINE                   RZ 11200028
00BA40 1B44                       15391+         SR    WORK2,WORK2 .      CLEAR WORK REGISTER                RZ 11250028
00BA42 8850 001D            0001D 15392+         SRL   WORK3,BITREG-(LDVBYTB-LDVBYTBI) .GET BIT #              11300028
00BA46 1835                       15393+         LR    WORK1,WORK3 .      FOR FOLLOWING RESET                WF 11350028
00BA48 4100 0100            00100 15394+         LA    R0,X'100' .        SET INDICATOR                      WF 11400028
00BA4C 1100                       15395+         LNR   R0,R0 .            FOR FOLLOWING PROCESSING           WF 11450028
00BA4E 4520 E436            0BA72 15396+         BAL   LINKREG,GETVISB .  BRANCH TO SUBROUTINE               RZ 11500028
00BA52 47F0 E42A      0BA66       15397+         B     RET0 .             SET CC AND RETURN TO CALLER        RZ 11550028

                                  15399+*                                                                    RZ 11650028
                                  15400+*        SET RETURN CODE INTO REG 15 IN USER'S SAVE AREA             RZ 11700028
                                  15401+*        REG 15 WAS ALREADY SET TO ZERO                              RZ 11750028
                                  15402+*                                                                    RZ 11751029

00BA56 41FF 0004            00004 15404+RET16    LA    REG15,4(REG15) .                                     RZ 11800028
00BA5A 41FF 0004            00004 15405+RET12    LA    REG15,4(REG15) .                                     RZ 11850028
00BA5E 41FF 0004            00004 15406+RET8     LA    REG15,4(REG15) .                                     RZ 11900028
00BA62 41FF 0004            00004 15407+RET4     LA    REG15,4(REG15) .                                     RZ 11950028
                            0BA66 15408+RET0     EQU   * .                                                  RZ 12000028
00BA66 50F0 D028            00028 15409+         ST    REG15,SVER0F .     STORE RETURN CODE                 RZ 12050028
00BA6A 184D                       15410+         LR    R4,RD .            SAVE AREA POINTER TO R4           WF 12060028
00BA6C 58B0 0844            00844 15411+         L     RB,HEX1000    .    RESTORE LOW CORE BASE       @D34RDFG 12070034
00BA70 07F6                       15412+         BR    RETREG .           RETURN TO CALLER                  RZ 12100028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 15414+*                                                                  RZ 12150028
                                 15415+*                                                                  RZ 12200028
                                 15416+*                                                                  RZ 12250028
                                 15417+*       THIS ROUTINE SETS A BITSTRING IN THE VISTAB TO             RZ 12300028
                                 15418+*       '0'S OR  TO '1'S DEPENDING                                 RZ 12350028
                                 15419+*       ON REG 0 : X'FFFFFF00' OR X'000000FF'.                     RZ 12400028
                                 15420+*       THE START ADDRESS OF THE BITSTRING IS CONTAINED IN         RZ 12450028
                                 15421+*       SSEARCH,THE BIT # IN SVWORK1                               RZ 12500028
                                 15422+*       PREG CONTAINS THE END ADDRESS OF THE BITSTRING,WORK1       RZ 12550028
                                 15423+*       CONTAINS THE BIT #+1                                       RZ 12600028
                                 15424+*       CREG IS USED AS POINTER INTO VISTAB                        RZ 12650028
                                 15425+*       WORK1,WORK2,WORK3 ARE USED AS WORK REGISTERS.              RZ 12700028
                                 15426+*       WORK2 MUST BE EVEN                                         RZ 12750028
                                 15427+*                                                                  RZ 12800028
                                 15428+*                                                                  RZ 12850028
                                 15429+*                                                                  RZ 12900028

                          0BA72  15431+GETVISB EQU   * .                                                  RZ 12950028
00BA72 5880 C414          00414  15432+        L     CREG,SSEARCH .     GET START ADDRESS OF BITSTRING     RZ 13000028
00BA76 1987                      15433+        CR    CREG,PREG .        COMPARE WITH END ADDRESS           RZ 13050028
00BA78 4780 E498      0BAD4      15434+        BE    GETVIS34 .         EQUAL,SPECIAL CASE                 RZ 13100028
                                 15435+*       SET/RESET BITS IN FIRST BYTE                               RZ 13150028
00BA7C 1B44                      15436+        SR    WORK2,WORK2 .      CLEAR WORKREGISTER                 RZ 13200028
00BA7E 4348 0000          00000  15437+        IC    WORK2,0(CREG) .    GET FIRST BYTE                     RZ 13250028
                          0BA82  15438+PCKGVIS2 EQU   *                  IF ANCHOR TABLE OVERLAYED    @DY11894 13270034
00BA82 5850 C418          00418  15439+        L     WORK3,SVWORK1 .    GET BIT # IN FIRST BYTE            RZ 13300028
00BA86 8940 5000          00000  15440+        SLL   WORK2,0(WORK3) .   SAVE FIRST BITS IN FIRST BYTE      RZ 13350028
00BA8A 1200                      15441+        LTR   REG0,REG0 .        TEST SET/RESET                     RZ 13400028
00BA8C 4740 E45A      0BA96      15442+        BM    *+10 .             RESET                              RZ 13450028
00BA90 1640                      15443+        OR    WORK2,REG0 .       SET LAST BYTE TO X'FF'             RZ 13500028
00BA92 47F0 E45C      0BA98      15444+        B     *+6 .                                                 RZ 13550028
00BA96 1440                      15445+        NR    WORK2,REG0 .       SET LAST BYTE TO X'00'             RZ 13600028
00BA98 8840 5000          00000  15446+        SRL   WORK2,0(WORK3) .   RESTORE FIRST BITS IN FIRST BYTE   RZ 13650028
00BA9C 4248 0000          00000  15447+        STC   WORK2,0(CREG) .    STORE BYTE BACK INTO VISTAB        RZ 13700028
00BAA0 4188 0001          00001  15448+GETVIS30 LA    CREG,1(CREG) .     INCREASE POINTER                   RZ 13750028
00BAA4 1987                      15449+        CR    CREG,PREG .        TEST END OF BITSTRING              RZ 13800028
00BAA6 47B0 E476      0BAB2      15450+        BNL   GETVIS32 .         BRANCH IF LAST BYTE                RZ 13850028
00BAAA 4208 0000          00000  15451+        STC   REG0,0(CREG) .     SET/RESET ONE BYTE                 RZ 13900028
                          0BAAE  15452+PCKGVIS3 EQU   *                  IF ANCHOR TABLE OVERLAYED    @DY11894 13920034
00BAAE 47F0 E464      0BAA0      15453+        B     GETVIS30 .         CONTINUE TO NEXT BYTE              RZ 13950028
00BAB2 4348 0000          00000  15454+GETVIS32 IC    WORK2,0(CREG) .    GET LAST BYTE                      RZ 14000028
                          0BAB6  15455+PCKGVIS4 EQU   *                  IF ANCHOR TABLE OVERLAYED    @DY11894 14020034
00BAB6 1133                      15456+        LNR   WORK1,WORK1 .    GET COMPLEMENT OF BIT # IN LAST BYTE RZ 14050028
00BAB8 8E40 3008          00008  15457+        SRDA  WORK2,BITBYT(WORK1) .SAVE LAST BITS IN BYTE          RZ 14100028
00BABC 1200                      15458+        LTR   REG0,REG0 .        TEST SET/RESET                     RZ 14150028
00BABE 4740 E48C      0BAC8      15459+        BM    *+10 .             RESET                              RZ 14200028
00BAC2 1640                      15460+        OR    WORK2,REG0 .       SET BITS TO '1'                    RZ 14250028
00BAC4 47F0 E48E      0BACA      15461+        B     *+6 .                                                 RZ 14300028
00BAC8 1440                      15462+        NR    WORK2,REG0 .       RESET BITS TO '0'                  RZ 14350028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00BACA 8F40 3008            00008 15463+         SLDA  WORK2,BITBYT(WORK1) .RESTORE LAST BITS IN BYTE        RZ 14400028
00BACE 4248 0000            00000 15464+GETVIS33 STC   WORK2,0(CREG) .    STORE BYTE BACK INTO VISTAB        RZ 14450028
00BAD2 07F2                       15465+         BR    LINKREG .          RETURN TO CALLER                   RZ 14500028
                            0BAD4 15466+GETVIS34 EQU   * .                                                   RZ 14550028
00BAD4 1B44                       15467+         SR    WORK2,WORK2 .      CLEAR WORK REGISTER                RZ 14600028
00BAD6 4348 0000            00000 15468+         IC    WORK2,0(CREG) .    GET BYTE FROM VISTAB               RZ 14650028
                            0BADA 15469+PCKGVIS5 EQU   *                  IF ANCHOR TABLE OVERLAYED    @DY11894 14670034
00BADA 1133                       15470+         LNR   WORK1,WORK1 .      COMPLEMENT OF LAST BIT # IN BYTE   RZ 14700028
00BADC 4133 0008            00008 15471+         LA    WORK1,BITBYT(WORK1) .                                RZ 14750028
00BAE0 8E40 3000            00000 15472+         SRDA  WORK2,0(WORK1) .   SAVE LAST BITS IN BYTE             RZ 14800028
00BAE4 5A30 C418            00418 15473+         A     WORK1,SVWORK1 .    GET BIT # OF FIRST BIT             WF 14850028
00BAE8 8B40 3000            00000 15474+         SLA   WORK2,0(WORK1) .   SAVE FIRST BITS IN BYTE            RZ 14950028
00BAEC 1200                       15475+         LTR   REG0,REG0 .        TEST SET/RESET                     RZ 15000028
00BAEE 4740 E4BC      0BAF8       15476+         BM    GETVIS35 .         RESET                              WF 15050028
00BAF2 1640                       15477+         OR    WORK2,REG0 .       SET LAST BYTE TO X'FF'             RZ 15100028
00BAF4 47F0 E4BE      0BAFA       15478+         B     GETVIS36 .                                            WF 15150028
00BAF8 1440                       15479+GETVIS35 NR    WORK2,REG0 .       RESET LAST BYTE TO X'00'           WF 15200028
00BAFA 8A40 3000            00000 15480+GETVIS36 SRA   WORK2,0(WORK1) .   SHIFT BACK FIRST BITS              WF 15250028
00BAFE 5B30 C418            00418 15481+         S     WORK1,SVWORK1 .    SUBTRACT SHIFT AMOUNT OF LAST BITS WF 15300028
00BB02 8F40 3000            00000 15482+         SLDA  WORK2,0(WORK1) .   SHIFT BACK LAST BITS               RZ 15350028
00BB06 47F0 E492      0BACE       15483+         B     GETVIS33 .         GO TO STORE BYTE BACK INTO VISTAB  RZ 15400028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 15485+*********************************************************************** 15404029
                                 15486+*                                                                       15405029
                                 15487+*        INITIALIZATION ROUTINE                                         15406029
                                 15488+*                                                                       15407029
                                 15489+*        THE INITIALIZATION ROUTINE IS ENTERED BY GETVIS/FREEVIS/CDLOAD 15408029
                                 15490+*        VIA BAL LINKREG,GTVSINIT                                       15409029
                                 15491+*                                                                       15410029
                                 15492+*        RUNMODE IS TESTED,IF REAL:ERROR,RETURN CODE 8                  15411029
                                 15493+*        IF SIZE WAS NOT SPECIFIED IN THE EXEC STATEMENT OR             15412029
                                 15494+*        IN THE SET SVA=... COMMAND:ERROR,RETURN CODE 4                 15413029
                                 15495+*                                                                       15414029
                                 15496+*        THE ADDRESS OF THE ANCHOR TABLE (USED FOR CDLOAD)              15415029
                                 15497+*        IS CALCULATED AND PUT INTO REGISTER ANCHBAS                    15416029
                                 15498+*                                                                       15417029
                                 15499+*        THE VISTAB IS REFERENCED TO ENSURE THAT NO PAGE FAULT          15418029
                                 15500+*        CAN OCCUR DURING CHANGE OF THE VISTAB                          15419029
                                 15501+*                                                                       15420029
                                 15502+*        IF THE INITIALIZATION ROUTINE IS ENTERED THE FIRST TIME,       15421029
                                 15503+*        SOME ADDRESSES (START+END ADDRESSES OF VISTAB,OF GETVIS        15422029
                                 15504+*        AREA,...)                                                      15423229
                                 15505+*        ARE CALCULATED AND STORED.A BIT IS SET TO INDICATE THAT THESE  15424029
                                 15506+*        ADDRESSES ARE AVAILABLE AND THEY ARE NOT CALCULATED AGAIN IN   15425029
                                 15507+*        FOLLOWING REQUESTS.                                            15426029
                                 15508+*        THE BIT IS LOCATED IN THE COMREG BYTE 134 BIT 7 FOR USER       15427029
                                 15509+*        PARTITION,FOR THE SVA IT IS BIT 7 IN BYTE 0 OF THE END ADDRESS 15428029
                                 15510+*        OF THE 'USER PART' OF THE SVA.                                 15430029
                                 15511+*                                                                    RZ 15450028
                                 15512+*********************************************************************** 15451029
                                 15513+*                                                                       15452029
                                 15514+*                                                                       15453029


                          0BB0A 15516+GTVSINIT EQU   * .               DO SOME INITIALIZATION             RZ 15500028
00BB0A 1BFF                      15517+         SR    REG15,REG15 .     CLEAR FOR RETURN CODE              RZ 15600028
00BB0C 1BBB                      15518+         SR    MODREG,MODREG .   CLEAR MODIFICATION REGISTER           15610029
                                 15519+*              WILL BE LOADED WITH '2' FOR SVA REQUEST                15620029
                                 15520+*                                                                    RZ 15650028

                                 15522+*                                                                    RZ 15700028
                                 15523+*        THIS ROUTINE PUTS THE ADDRESS                               RZ 15750028
                                 15524+*        OF THE USER'S SAVE AREA INTO SVAREG                         RZ 15800028
                                 15525+*                                                                       15850028
00BB0E 4870 0752                 00752 15526+         LH    PREG,TIK  .       GET THE PIK/TIK          @D34RDUL 16050034
00BB12 18D7                      15527+         LR    SVAREG,PREG .     LOAD PIK/TIK                        16100034
00BB14 4AD0 06AA                 006AA 15528+         AH    SVAREG,YPIBTAB .  ADD ADDRESS OF PIB TABLE            16350028
00BB18 9180 D004      00004      15529+         TM    PIBDATFL-PIBADR(SVAREG),TRAM . TEST RUN MODE          16400028
00BB1C 58DD 0004                 00004 15530+         L     SVAREG,PIBSAVE-PIBADR(SVAREG) . GET SAVE AREA ADDRESS 16450028
00BB20 47E0 E422                 0BA5E 15531+         BC    NO,RET8 .         REQUEST FROM REAL PARTITION,ERROR   16500028
                                 15532+*                                                                       16550028
                                 15533+*                                                                       16600028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00BB24 9104 D02B      0002B       15534+         TM    SVER0F+3,SVAIND .  REQUEST FOR SVA?                        16601029
00BB28 4780 E510      0BB4C       15535+         BZ    GTVSINT2 .         NO,CONTINUE NORMAL                      16601229
00BB2C 41B0 0002            00002 15536+         LA    MODREG,LDVBYTSV-LDVBYTBI . INDICATE SVA REQUEST            16602229
00BB30 5830 07F0            007F0 15537+         L     WORK1,ASVIS .      GET END ADDRESS OF 'USER' AREA          16603229
00BB34 0630                       15538+         BCTR  WORK1,0 .                                                  16604229
00BB36 4143 0800            00800 15539+         LA    WORK2,PSIZE(WORK1) .                                       16605229
00BB3A 5940 0680            00680 15540+         C     WORK2,EOVSADR .                                            16606229
00BB3E 47B0 E426            0BA62 15541+         BC    NL,RET4 .       LESS THAN 4K LEFT                          16608229
00BB42 D54F 3800 D000 00800 00000 15542+         CLC   PSIZE(L80,WORK1),D0(SVAREG)  VISTAB-PAGES                  16609229
                                  15543+*        AND PAGE(S) WITH USER-SA IN REAL STORAGE                         16610229
00BB48 47F0 E55A      0BB96       15544+         B     GTVSINT3 .                                                 16611229
                                  15545+*                                                                         16612229
                            0BB4C 15546+GTVSINT2 EQU   *                                                @DM05112 16613229
00BB4C 4830 0752            00752 15547+         LH    WORK1,TIK                                          @D34RDUL 16901034
00BB50 4A30 06CC            006CC 15548+         AH    WORK1,YPIB2TAB                                     @DA01581 17000028
00BB54 BF33 3000            00000 15549+         ICM   WORK1,M3,PIBCOMRA-PIBADR(WORK1)                    @DA01581 17050028
00BB58 5833 0020            00020 15550+         L     WORK1,IJBTOP-COMREG(WORK1) .GET END ADDRESS OF USER AREA 17900028
00BB5C 4133 0001            00001 15551+         LA    WORK1,1(WORK1) .   INCREASE BY 1 FOR FOLLOWING COMPARE   17950028
                                  15552+*        VIRTUAL END ADDRESS IN BOUNDARY BOX IS START ADDRESS             17960028
                                  15553+*        OF NEXT PARTITION                                                17980028
00BB60 5840 07D4            007D4 15554+         L     WORK2,ABBOX .      GET ADDRESS OF BOUNDARY BOX         RZ 18000028
00BB64 4A40 067E            0067E 15555+         AH    WORK2,PIK .        ADD DISPLACEMENT                    RZ 18050028
                            00000 15556+         USING BBOXADR,WORK2 .                                          RZ 18100028
00BB68 5930 400C            0000C 15557+         C     WORK1,VIRTENDP .   COMPARE END OF USER AREA            RZ 18150028
                                  15558+*                             WITH END OF PARTITION                    RZ 18200028
00BB6C 47B0 E426            0BA62 15559+         BC    NL,RET4 .          ERROR IF NOT LOW                    RZ 18250028
00BB70 18C3                       15560+         LR    ANCHBAS,WORK1 .    LOAD BASE REG. OF ANCHTAB       @D33GDGU 18250333
                                  15561+*                                                                  @D33GDGU 18250633
                                  15562+*        DETERMINE ROUTINE IDENTIFIER ( RID ) TO INDICATE          @D33GDGU 18250933
                                  15563+*        TO PAGE MGR. THE GATE IN THE RESOURCE TABLE (RETAB)       @D33GDGU 18251233
                                  15564+*        TO BE SET/RESET                                           @D33GDGU 18251533
                                  15565+*                                                                  @D33GDGU 18251833
00BB72 4830 067E            0067E 15566+         LH    WORK1,PIK .        GET PARTITION IDENTIFICATION    @D33GDGU 18252133
00BB76 8830 0003            00003 15567+         SRL   WORK1,3  .         KEY AND DETERMINE OFFSET        @D33GDGU 18252433
00BB7A 4133 003B            0003B 15568+         LA    WORK1,GTVSBG-D2(WORK1) . IN RESOURCE TABLE        @D33GDGU 18252733
00BB7E 4030 087E            0087E 15569+         STH   WORK1,RID .        FOR PAGE MGR.USE                  @D33GDGU 18253033
                                  15570+*                                                                  @D33GDGU 18253333
                                  15571+*              THE RID VALUE INDICATES TO THE PAGE MGR.,           @D33GDGU 18253633
                                  15572+*              WHICH GATE IN THE RETAB HAS TO BE SET/RESET         @D33GDGU 18253933
                                  15573+*                                                                  @D33GDGU 18254233
                                  15574+*        TEST NOW, IF THIS GATE IS OPEN.                           @D33GDGU 18254533
                                  15575+*                                                                  @D33GDGU 18254833
                                  15576+*        THE GATE WILL BE NORMALLY OPEN.IF A PAGE FAULT OCCURS     @D33GDGU 18255133
                                  15577+*        IN THE GETVIS ROUTINE, THEN THE PGMGR WILL CLOSE THE      @D33GDGU 18255433
                                  15578+*        GATE. IT WILL BE OPENED AGAIN WHEN DISPATCHING THE        @D33GDGU 18255733
                                  15579+*        TASK WHICH INITIATED THE PAGE FAULT.                      @D33GDGU 18256033
                                  15580+*                                                                  @D33GDGU 18256333
00BB82 4133 08E6            008E6 15581+         LA    WORK1,RETAB(WORK1) .POINT TO GATE IN RETAB        @D33GDGU 18256633
00BB86 9583 3000      00000       15582+         CLI   D0(WORK1),READY .  IS THE GATE OPEN    ???        @D33GDGU 18256933
00BB8A 4780 E55A      0BB96       15583+         BE    GTVSINT3 .         YES, THEN CONTINUE                @D33GDGU 18257233
                            01000 15584+         USING SYSS00+X'1000',RB  USE LOW CORE BASE                 @D34RDFG 18257334
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00BB8E 58B0 0844            00844 15585+         L     RB,HEX1000    .    RESTORE LOW CORE BASE        @D34RDFG 18257434
00BB92 47F0 B002      01002       15586+         B     GATEWAIT .         AND GO TO DISPATCHER         @D33GDGU 18257834
                            00000 15587+         USING ANCHTAB,ANCHBAS .  REESTABLISH ADDRESSABILITY   @D33GDGU 18257934
                            00000 15588+         USING SVEARA,SVAREG   .  FOR ANCHTAB AND SAVE AREA    @D33GDGU 18258034
                                  15589+*                                                               @D33GDGU 18258133
                                  15590+*        GATE CLOSED MEANS THAT ANOTHER TASK IN THE PARTITION  @D33GDGU 18258433
                                  15591+*        IS JUST USING THE GETVIS ROUTINE                      @D33GDGU 18258733
                                  15592+*                                                               @D33GDGU 18259033
                            0BB96 15593+GTVSINT3 EQU   * .                                             @D33GDGU 18259333
                                  15594+*                                                               @D33GDGU 18259633
                                  15595+*        NOW TEST FOR FIRST REFERENCE OF GETVIS                          18750028
                                  15596+*        IF FIRST,CLEAR PAGE FOR ANCHOR TABLE AND VISTAB                 18800028
                                  15597+*        AND SET BIT IN COMREG TO '1'                                    18810028
                                  15598+*                                                                        18812029
00BB96 12BB                       15599+         LTR   MODREG,MODREG .    REQUEST FOR SVA?                     18812429
00BB98 4780 E574      0BBB0       15600+         BZ    GTVSINT4 .         NO,CONTINUE NORMAL                   18812829
00BB9C 41C3 0001            00001 15601+         LA    ANCHBAS,D1(WORK1) . START ADDR.OF SVA ANCHTAB  @D33GDGU 18813033
00BBA0 9180 073B      0073B       15602+         TM    VSFLAG,ANCHSVA . TEST FOR FIRST REQUEST              18813229
00BBA4 4710 E6D6      0BD12       15603+         BO    GTVSINT1 .         NO,GO TO EXIT OF SUBROUTINE       18813629
00BBA8 9680 073B      0073B       15604+         OI    VSFLAG,ANCHSVA .   YES,INDICATE INITIALIZATION       18813729
00BBAC 47F0 E612      0BC4E       15605+         B     GTVSINT5 .                                           18813829
                                  15606+*                                                                        18814029
00BBB0 4830 067E            0067E 15607+GTVSINT4 LH    WORK1,PIK                                    @DA04467 18822031
00BBB4 4A30 06CC            006CC 15608+         AH    WORK1,YPIB2TAB                               @DA01581 18824028
00BBB8 BF33 3000            00000 15609+         ICM   WORK1,M3,PIBCOMRA-PIBADR(WORK1)              @DA01581 18826028
                            00000 15610+         USING COMREG,WORK1       DECLARE COMREG BASE         @DM11453 18829831
00BBBC 9101 3086      00086       15611+         TM    ANCHTBYT,ANCHTBIT  TEST FIRST REQUEST          @DM11453 18830031
00BBC0 4710 E6D6      0BD12       15612+         BO    GTVSINT1 .         NO.GO TO EXIT                        18840028
00BBC4 9601 3086      00086       15613+         OI    ANCHTBYT,ANCHTBIT  SET BIT IN COMREG           @DM11453 18842031
                                  15614+         DROP  WORK1              DROP COMREG BASE            @DM11453 18842231
                                  15615+*                                                               @D33GDGU 18842333
                                  15616+*        SEE FIRST,IF VISTAB FITS INTO ANCHOR TABLE PAGE        @D33GDGU 18842433
                                  15617+*                                                               @D33GDGU 18842533
00BBC8 183C                       15618+         LR    WORK1,ANCHBAS .   POINT TO ANCHOR TABLE BEGIN  @D33GDGU 18842633
00BBCA 4133 0800            00800 15619+         LA    WORK1,PSIZE(WORK1) . ASSUME THAT VISTAB=1 PAGE @D33GDGU 18842733
00BBCE 5850 400C            0000C 15620+         L     WORK3,VIRTENDP .  GET END OF VIRTUAL STORAGE   @D33GDGU 18842833
00BBD2 0650                       15621+         BCTR  WORK3,0 .         FROM BOUNDARY BOX            @D33GDGU 18842933
00BBD4 1B53                       15622+         SR    WORK3,WORK1 .     GET AVAILABLE GETVISAREA     @D33GDGU 18843033
00BBD6 8A50 B00A            0000A 15623+         SRA   WORK3,LDVBYTB(MODREG) .=VISTAB LNG IN BYTES   @D33GDGU 18843133
00BBDA 4130 03E1            003E1 15624+         LA    WORK1,MAXVISTB .  GET LNG.IF VISTAB ON 1 PAGE  @D33GDGU 18843233
00BBDE 1953                       15625+         CR    WORK3,WORK1 .     VISTAB LNG.MORE THAN 1 PAGE  @D33GDGU 18843333
00BBE0 47D0 E612      0BC4E       15626+         BNH   GTVSINT5 .         NO,THEN SKIP SPECIAL CODE    @D33GDGU 18843433
                                  15627+*                                                               @D33GDGU 18843533
                                  15628+*        VISTAB EXCEEDS ONE PAGE.FIND OUT, HOW MANY PAGES ARE  @D33GDGU 18843633
                                  15629+*        NEEDED FOR THE VISTAB TO ACCESS ALL VIRT.STOR.OF PART @D33GDGU 18843733
                                  15630+*        WORK1 = VISTAB LENGTH FOR A ONE-PAGE VISTAB            @D33GDGU 18843833
                                  15631+*        WORK3 = VIRT.STOR.IN NUMBER OF NECESSARY VISTAB BYTES  @D33GDGU 18843933
                                  15632+*                                                               @D33GDGU 18844033
00BBE4 1B53                       15633+         SR    WORK3,WORK1 .   VISTAB BYTES BEYOND 1 MB STOR. @D33GDGU 18844133
00BBE6 8A50 B00B            0000B 15634+         SRA   WORK3,LDPSIZE(MODREG) . DIVIDE BY BYTES/PAGE   @D33GDGU 18844233
00BBEA 4155 0002            00002 15635+         LA    WORK3,D2(WORK3) .   INCREASE BY 2 TO GET NR OF @D33GDGU 18844333
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   15636+         DROP  WORK2 .              VISTAB PAGES                @D33GDGU 18844433
00BBEE 1845                        15637+         LR    WORK2,WORK3 .       SAVE WORK3 REG.             @D33GDGU 18844533
00BBF0 8B50 B003           00003   15638+         SLA   WORK3,D3(MODREG) .  MULTIPLY BY 8. WORK3 = NR  @D33GDGU 18844633
                                   15639+*                                  OF XC INSTR.TO CLEAR PAGES  @D33GDGU 18844733
00BBF4 183C                        15640+         LR    WORK1,ANCHBAS .     POINT TO ANCHOR TABLE       @D33GDGU 18844833
                           0BBF6   15641+GTVSIN12 EQU   *                                              @D33GDGU 18844933
00BBF6 D7FF 3000 3000 00000 00000  15642+         XC    0(MAXDATA,WORK1),0(WORK1) .  CLEAR 256 BYTES  @D33GDGU 18845033
00BBFC 4133 0100           00100   15643+         LA    WORK1,MAXDATA(WORK1) . INCREASE BY 256      @D33GDGU 18845133
00BC00 4650 E5BA           0BBF6   15644+         BCT   WORK3,GTVSIN12 .    AND REPEAT UNTIL ALL CLEARED @D33GDGU 18845233
                                   15645+*                                                             @D33GDGU 18845333
                                   15646+*        ALL PAGES FOR ANCHTAB AND VISTAB CLEARED.           @D33GDGU 18845433
                                   15647+*        BUILD NOW ANCHTAB AND VISTAB HEADER                 @D33GDGU 18845533
                                   15648+*                                                             @D33GDGU 18845633
00BC04 415C 03E4           003E4   15649+         LA    WORK3,49*ENTRYL+16(ANCHBAS) . STORE ANCHOR TAB. @D33GDGU 18845733
00BC08 505C 0000           00000   15650+         ST    WORK3,0(ANCHBAS) . END ADDRESS IN ANCHTAB   @D33GDGU 18845833
00BC0C 5830 07D4           007D4   15651+         L     WORK1,ABBOX .       POINT TO BOUNDARY BOX       @D33GDGU 18845933
00BC10 4A30 067E           0067E   15652+         AH    WORK1,PIK .                                     @D33GDGU 18846033
                           00000   15653+         USING BBOXADR,WORK1 .     BASE POINTER FOR DSECT      @D33GDGU 18846133
00BC14 5850 300C           0000C   15654+         L     WORK3,VIRTENDP .    GET END OF VIRTUAL PARTITION @D33GDGU 18846233
00BC18 0650                        15655+         BCTR  WORK3,0 .                                       @D33GDGU 18846333
00BC1A 5050 C404           00404   15656+         ST    WORK3,EVIRTMEM .    AND STORE IN VISTAB HEADER  @D33GDGU 18846433
                                   15657+         DROP  WORK1 .             RELEASE AS BASE REG.        @D33GDGU 18846533
00BC1E 8B40 B00B           0000B   15658+         SLA   WORK2,LDPSIZE(MODREG) . VISTAB-PAGES * 2048    @D33GDGU 18846633
00BC22 1A4C                        15659+         AR    WORK2,ANCHBAS .     POINT TO FIRST FREE GETVIS  @D33GDGU 18846733
00BC24 5040 C400           00400   15660+         ST    WORK2,BVIRTMEM .    AREA BYTE AND STORE IN HDR. @D33GDGU 18846833
00BC28 4130 C41E           0041E   15661+         LA    WORK1,VISTAB .      GET VISTAB BEGIN ADDR. AND  @D33GDGU 18846933
00BC2C 5030 C408           00408   15662+         ST    WORK1,BVISTAB .     STORE IN VISTAB HEADER      @D33GDGU 18847033
00BC30 5030 C410           00410   15663+         ST    WORK1,CURPOINT .    IN BOTH FIELDS              @D33GDGU 18847133
                                   15664+*                                                             @D33GDGU 18847233
                                   15665+*        THE END OF VISTAB HAS TO BE COMPUTED FROM THE       @D33GDGU 18847333
                                   15666+*        AVAILABLE GETVIS AREA                               @D33GDGU 18847433
                                   15667+*                                                             @D33GDGU 18847533
00BC34 5B50 C400           00400   15668+         S     WORK3,BVIRTMEM .    GETVISAREA SIZE IN BYTES    @D33GDGU 18847633
00BC38 8A50 B00A           0000A   15669+         SRA   WORK3,LDVBYTB(MODREG) . GETVIS AREA SIZE IN NR. @D33GDGU 18847733
                                   15670+*                                  OF VISTAB BYTES             @D33GDGU 18847833
00BC3C 1A53                        15671+         AR    WORK3,WORK1 .       ADD VISTAB LNG.TO VSTB.ADDR @D33GDGU 18847933
00BC3E 5050 C40C           0040C   15672+         ST    WORK3,EVISTAB .     AND STORE IN HEADER         @D33GDGU 18848033
00BC42 4150 0008           00008   15673+         LA    WORK3,BITBYT .      GET NR OF BITS PER BYTE     @D33GDGU 18848133
00BC46 4050 C41C           0041C   15674+         STH   WORK3,YBITBYT .     AND STORE IN VISTAB HEADER  @D33GDGU 18848233
00BC4A 47F0 E6D6      0BD12        15675+         B     GTVSINT1 .          AND RETURN FROM GETVIS INIT. @D33GDGU 18848333
                                   15676+*                                                             @D33GDGU 18848433
                           00000   15677+         USING BBOXADR,WORK2 .   ESTABLISH ADDRESSAB.FOR BBOX @D33GDGU 18848533
00BC4E 183C                        15678+GTVSINT5 LR    WORK1,ANCHBAS .    FOR FOLLOWING CLEAR USE WORK1 AS BASE 18848733
00BC50 4150 0008           00008   15679+         LA    WORK3,PSIZE/MAXDATA .# OF BYTES AFFECTED BY ONE INSTR.  18848833
00BC54 12BB                        15680+         LTR   MODREG,MODREG .     REQUEST FOR SVA?            18849033
00BC56 4780 E622      0BC5E        15681+         BZ    *+8 .               NO CONTINUE NORMAL          18849133
00BC5A 8B50 0001           00001   15682+         SLA   WORK3,1 .           FOR SVA CLEAR 2 PAGES       18849229
00BC5E D7FF 3000 3000 00000 00000  15683+GTVSIN51 XC    0(MAXDATA,WORK1),0(WORK1) . CLEAR                 18849629
00BC64 4133 0100           00100   15684+         LA    WORK1,MAXDATA(WORK1) .ANCHOR TABLE                18849729
00BC68 4650 E622           0BC5E   15685+         BCT   WORK3,GTVSIN51 .    AND VISTAB                  18849829
                                   15686+*                                                             18849929
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   15687+*        CALCULATE BEGIN + START ADDRESSES OF VIRT.MEMORY + VISTAB   RZ 18850028
                                   15688+*                                                                      18860029
00BC6C 12BB                        15689+         LTR   MODREG,MODREG .    REQUEST FOR SVA?                    18870029
00BC6E 4780 E63E      0BC7A        15690+         BZ    GTVSINT6 .         NO,CONTINUE NORMAL                  18880029
00BC72 5850 0680            00680  15691+         L     WORK3,EOVSADR .    YES,GET END OF 'GETVIS' AREA        18890029
00BC76 47F0 E64C      0BC88        15692+         B     GTVSINT7 .                                             18892029
                                   15693+*                                                                      18894029
00BC7A 415C 03E4            003E4  15694+GTVSINT6 LA    WORK3,49*ENTRYL+16(ANCHBAS)  STORE END ADDRESS  @DM14638 18900032
00BC7E 505C 0000            00000  15695+         ST    WORK3,0(ANCHBAS)   OF ANCHORTABLE AT BEGINNING  @DM14638 18902032
00BC82 5850 400C            0000C  15696+         L     WORK3,VIRTENDP     GET END                      @DM14638 18904032
00BC86 0650                        15697+         BCTR  WORK3,0            OF PARTITION ...             @DM14638 18950032
00BC88 5050 C404            00404  15698+GTVSINT7 ST    WORK3,EVIRTMEM .   GETVIS AREA                          19000029
00BC8C 415C 0800            00800  15699+         LA    WORK3,PSIZE(ANCHBAS) .GET START ADDRESS OF GETVIS AREARZ 19050028
00BC90 12BB                        15700+         LTR   MODREG,MODREG .    REQUEST FOR SVA?                    19060029
00BC92 4780 E65E      0BC9A        15701+         BZ    *+8 .              NO,CONTINUE NORMAL                  19070029
00BC96 4155 0800            00800  15702+         LA    WORK3,PSIZE(WORK3) . FOR SVA ONE PAGE MORE             19080029
00BC9A 5050 C400            00400  15703+         ST    WORK3,BVIRTMEM .   AND SAVE IT                      RZ 19100028
00BC9E 4130 C41E            0041E  15704+         LA    WORK1,VISTAB .     START ADDRESS OF VISTAB          RZ 19150028
00BCA2 5030 C408            00408  15705+         ST    WORK1,BVISTAB .    SAVE IT                          RZ 19200028
00BCA6 5030 C410            00410  15706+         ST    WORK1,CURPOINT .   COPY TO CURRENT POINTER          RZ 19250028
                                   15707+         DROP  WORK2 .            NO LONGER USED AS BASE                 19260028
00BCAA 5850 C404            00404  15708+         L     WORK3,EVIRTMEM .   GET END OF GETVIS AREA           RZ 19300028
00BCAE 12BB                        15709+         LTR   MODREG,MODREG .    REQUEST FOR SVA ?                   19302029
00BCB0 4780 E698      0BCD4        15710+         BZ    GTVINT9 .          NO                                  19304029
00BCB4 1845                        15711+         LR    WORK2,WORK3 .                                          19306029
00BCB6 5B40 C400            00400  15712+         S     WORK2,BVIRTMEM .   SUBTRACT BEGIN OF GETVIS AREA       19308029
00BCBA 1B55                        15713+         SR    WORK3,WORK3 .                                          19310029
00BCBC 8E40 B00A            0000A  15714+         SRDA  WORK2,LDVBYTB(MODREG) . DIVIDE BY # OF BYTES           19312029
                                   15715+*        REPRESENTED BY 1 BYTE IN VISTAB                              19314029
00BCC0 1255                        15716+         LTR   WORK3,WORK3 .      MULTIPLE OF 4K ?                    19316029
00BCC2 5850 C404            00404  15717+         L     WORK3,EVIRTMEM .   GET END OF GETVIS AREA              19318029
00BCC6 4740 E698      0BCD4        15718+         BM    GTVINT9 .          YES, MULTIPLE OF 4K                 19320029
00BCCA 4140 0800            00800  15719+         LA    WORK2,PSIZE .                                          19322029
00BCCE 1B54                        15720+         SR    WORK3,WORK2 .      DECREASE GETVIS AREA                19324029
00BCD0 5050 C404            00404  15721+         ST    WORK3,EVIRTMEM .     BY 2K                             19326029
00BCD4 5B50 C400            00400  15722+GTVINT9  S     WORK3,BVIRTMEM .   SUBTRACT BEGIN OF GETVIS AREA    WF 19350029
00BCD8 8A50 B00A            0000A  15723+         SRA   WORK3,LDVBYTB(MODREG) .    DIVIDE BY # OF BYTES        19352029
                                   15724+*                                 REPRESENTED BY 1 BYTE IN VISTAB  RZ 19354028
00BCDC 4140 03E1            003E1  15725+         LA    WORK2,MAXVISTB .   GET MAX. LENGTH OF VISTAB           19360029
00BCE0 12BB                        15726+         LTR   MODREG,MODREG .    REQUEST FOR SVA?                    19362029
00BCE2 4780 E6AE      0BCEA        15727+         BZ    *+8 .              NO,CONTINUE NORMAL                  19364029
00BCE6 4144 0800            00800  15728+         LA    WORK2,PSIZE(WORK2) .FOR SVA ONE PAGE MORE              19366029
00BCEA 1954                        15729+         CR    WORK3,WORK2 .      COMPARE ACTUAL LENGTH OF VISTAB     19370029
00BCEC 47D0 E6C8            0BD04  15730+         BC    NH,GTVSINT8 .      O.K.                                19380029
00BCF0 1854                        15731+         LR    WORK3,WORK2 .      ACTUAL LENGTH REDUCED TO MAX. LENGT 19390029
00BCF2 4144 0001            00001  15732+         LA    WORK2,D1(WORK2) .                                      19391029
00BCF6 8B40 B00A            0000A  15733+         SLA   WORK2,LDVBYTB(MODREG) . MULTIPLY BY # OF               19392029
                                   15734+*        BYTES REPRESENTED BY 1 BYTE IN VISTAB                        19393029
00BCFA 5A40 C400            00400  15735+         A     WORK2,BVIRTMEM . GET NEW                               19394029
00BCFE 0640                        15736+         BCTR  WORK2,0 .          END OF                              19395029
00BD00 5040 C404            00404  15737+         ST    WORK2,EVIRTMEM .    GETVIS-AREA                        19396029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00BD04 1A53                      15738+GTVSINT8 AR    WORK3,WORK1 .      ADD START ADDRESS OF VISTAB        RZ 19500029
00BD06 5050 C40C           0040C 15739+         ST    WORK3,EVISTAB .    SAVE END ADDRESS OF VISTAB         RZ 19550028
00BD0A 4150 0008           00008 15740+         LA    WORK3,BITBYT .     # OF BITS IN A BYTE                RZ 19600028
00BD0E 4050 C41C           0041C 15741+         STH   WORK3,YBITBYT .    SAVE IT                            RZ 19650028
00BD12 184D                      15742+GTVSINT1 LR    R4,RD .            LOAD BASE REG FOR CDLOAD SAVE AREA VD 19660029
00BD14 07F2                      15743+         BR    LINKREG .          RETURN TO CALLER                   VD 19700028
                                 15744+         DROP  SVAREG .                                                  19701029
                                 15745+         DROP  ANCHBAS .                                                 19702029
                                 15746+         DROP  RE .                                                      19703029
                           00000 15747+         USING SVEARA,R8 .        RESTORE ADDRESSABILITY                 19705029
                           00000 15748+         USING SYSS00,R0,RB       REEST.LOW CORE ADDRESSABILITY@D34RDFG 19860034
                                 15749+* SUPERVISOR - SGPOPT - 5745-SC-SUP - REL. 34.0                @D34RDFG 00301034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                    15752+         DROP  RB                 DROP STANDARD SYSTEM BASE    @D34RDFG 00308234
                                0BD16 15753+         USING PAGEOPT,RD         ESTABLISH ADDRESSABILITY     @DM16040 00308434
                                082E6 15754+         USING PMGRADR,RE,RF .                                 @DL2982P 00308734
00BD16                              15755+PAGEOPT  DS    0H                 BASE-ADDRESS                 @DM16040 00308834
00BD16 07FC                         15756+         BR    RC                 GOTO SVC ROUTINE             @D34RDFG 00309434
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  15758+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@DL2982P 00320029
                                  15759+*                                                                   @DL2982P 00330029
                                  15760+*                                                                   @DL2982P 00340029
                                  15761+*       F C E P G O U T  ( S V C  86 )                              @DL2982P 00342029
                                  15762+*                                                                   @DL2982P 00344029
                                  15763+*                                                                   @DL2982P 00346029
                                  15764+*       ENTRY POINT:  SVC 86                                        @DL2982P 00348029
                                  15765+*                                                                   @DL2982P 00348429
                                  15766+*                                                                   @DL2982P 00348829
                                  15767+*       FOR FURTHER DESCRIPTION SEE RELPAG                          @DL2982P 00349229
                                  15768+*                                                                   @DL2982P 00349629
                                  15769+*                                                                   @DL2982P 00349729
                                  15770+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@DL2982P 00349829

00BD18 92D6 D1F6      0BF0C       15772+PAGEOUT  MVI   SVCID,C'O' .      MOVE 'O' TO ID                    @DL2982P 00350029
00BD1C 47F0 D00E      0BD24       15773+         B     BEGIN .                                                 @DL2982P 00400029

                                  15775+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@DL2982P 00410029
                                  15776+*                                                                   @DL2982P 00420029
                                  15777+*                                                                   @DL2982P 00430029
                                  15778+*       R E L P A G  ( S V C  85 )                                  @DL2982P 00440029
                                  15779+*                                                                   @DL2982P 00442029
                                  15780+*                                                                   @DL2982P 00444029
                                  15781+*       ENTRY POINT:  SVC 85                                        @DL2982P 00446029
                                  15782+*                                                                   @DL2982P 00448029
                                  15783+*                                                                   @DL2982P 00448429
                                  15784+*       INPUT:    R1  POINTS  TO  A  PARAMETER  LIST                @DL2982P 00448829
                                  15785+*                                                                   @DL2982P 00449229
                                  15786+*                                                                   @DL2982P 00449629
                                  15787+*       OUTPUT:   PAGE TABLE ENTRIES AND                            @DL2982P 00449729
                                  15788+*                 PAGE FRAME TABLE ENTRIES ARE MODIFIED             @DL2982P 00449829
                                  15789+*                 ACCORDING TO THE PROPERTIES OF THE                @DL2982P 00449929
                                  15790+*                 REQUESTED PAGES.                                  @DL2982P 00466629
                                  15791+*                                                                   @DL2982P 00476629
                                  15792+*       USER'S REGISTER 15 (INTERN. RETC) ON RETURN :                @DL2982P 00478629
                                  15793+*                                                                   @DL2982P 00480629
                                  15794+*                 BIT 30 SET TO 1 WHEN A NEGATIVE LENGTH WAS        @DL2982P 00482629
                                  15795+*                 SPECIFIED                                         @DL2982P 00483029
                                  15796+*                 BIT 29 SET TO 1 WHEN AT LEAST ONE PAGE            @DL2982P 00483129
                                  15797+*                 DOES NOT BELONG TO THE PARTITION.                 @DL2982P 00483229
                                  15798+*                 BIT 28 SET TO 1 WHEN A PAGE IS PFIXED OR          @DL2982P 00488829
                                  15799+*                 TFIXED OR IS CONTAINED IN THE PG-QUEUE            @DL2982P 00490829
                                  15800+*                 BIT 27 SET TO 1 WHEN THE PARAMETER LIST           @DL2982P 00491229
                                  15801+*                 IS NOT ENTIRELY CONTAINED IN THE PARTITION        @DL2982P 00492829
                                  15802+*                                                                   @DL2982P 00492929
                                  15803+*                 REGISTER 15 IS ZERO WHEN NO EXCEPTIONS            @DL2982P 00493229
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 15804+*                 WERE STATED AND THE REQUEST WAS HANDLED     @DL2982P 00493629
                                 15805+*                 SUCCESFULL FOR ALL PAGES.                   @DL2982P 00494029
                                 15806+*                                                             @DL2982P 00494129
                                 15807+*                                                             @DL2982P 00494229
                                 15808+*        EXIT:    ALWAYS TO PFEXIT                            @DL2982P 00494329
                                 15809+*                                                             @DL2982P 00508229
                                 15810+*                                                             @DL2982P 00518229
                                 15811+*        REGISTER USAGE:                                      @DL2982P 00520229
                                 15812+*                                                             @DL2982P 00520629
                                 15813+*                                                             @DL2982P 00521029
                                 15814+*                 R1 - CURRENT POINTER TO PARAMETER LIST      @DL2982P 00521429
                                 15815+*                 R2 - POINTER TO BBOX                        @DL2982P 00521829
                                 15816+*                 R3 - OFFSET TO BEGIN OF PAGE FRAME TABLE    @DL2982P 00521929
                                 15817+*                 R6 - POINTER TO PAGE FRAME TABLE            @DL2982P 00522029
                                 15818+*                 R7 - POINTS TO Q-HEADERR                    @DL2982P 00522129
                                 15819+*                 R8 - POINTS TO PAGE TABLE ENTRY             @DL2982P 00526729
                                 15820+*                 R9 - LINK REGISTER                          @DL2982P 00528729
                                 15821+*                                                             @DL2982P 00530729
                                 15822+*                                                             @DL2982P 00531129
                                 15823+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@DL2982P 00531229

00BD20 92D9 D1F6      0BF0C      15825+RELPAGE  MVI   SVCID,C'R' .      MOVE R(ELEASE) TO ID        @DL2982P 00531529
00BD24 9200 D1F4      0BF0A      15826+BEGIN    MVI   RETC,0 .          MOVE 0 TO RETURN-CODE       @DL2982P 00536129
00BD28 58E0 0778            00778 15827+         L     RE,APMGR .        ESTABLISH 1ST AND 2ND BASE  @DL2982F 00546129
00BD2C 58F0 E4A6            0878C 15828+         L     RF,BSEREG2 .      FOR PAGE MANAGER            @DL2982F 00548129
00BD30 9180 A004      00004      15829+         TM    PIBDATFL,REAL .   JOB IN REAL MODE?           @DL2982P 00550029
00BD34 4780 D1C2      0BED8      15830+         BZ    RET .             IF YES                      @DL2982P 00600029
00BD38 4530 D3CE            0C0E4 15831+         BAL   R3,VALLIST .      VALIDATE LIST BOUND.        @DL2982P 00650029
00BD3C 47F0 D10A      0BE20      15832+         B     INVLST .          WHOLE LIST NOT IN PARTITION @DL2982P 00660029
00BD40 5860 07CC            007CC 15833+         L     R6,APFT .         POINT R6 TO P.FR.TABLE      @DL2982P 00700029
00BD44 5870 ED32            09018 15834+         L     R7,Q00 .          POINT R7 TO Q00-HEADER      @DL2982P 00750029
00BD48 5880 07C8            007C8 15835+         L     R8,ASEGT .        POINT R8                    @DL2982P 00800029
00BD4C 5888 0000            00000 15836+         L     R8,0(R8) .        *  TO THE                   @DL2982P 00850029
00BD50 4188 0000            00000 15837+         LA    R8,0(R8) .        *  PAGE-TABLE               @DL2982P 00900029
00BD54 5080 D1EA            0BF00 15838+         ST    R8,PTBEGIN .      AND SAVE IT                 @DL2982P 00950029
00BD58 5820 07D4            007D4 15839+         L     R2,ABBOX .        POINT R2 TO BBOX-ENTRY      @DL2982P 01000029
00BD5C 4A20 067E            0067E 15840+         AH    R2,PIK .          *  OF PARTITION             @DL2982P 01050029

00BD60 9500 1000      00000      15842+CHKEND   CLI   0(R1),0 .         END OF LIST?                @DL2982P 01100029
00BD64 4770 D1C2      0BED8      15843+         BNE   RET .             YES,RETURN                  @DL2982P 01150029
00BD68 5851 0004            00004 15844+         L     R5,4(R1) .        GET THE LENGTH              @DL2982P 01200029
00BD6C 1255                       15845+         LTR   R5,R5 .           IS IT POSITIVE?             @DL2982P 01250029
00BD6E 4740 D16E      0BE84      15846+         BM    RETC2 .           NO,SET UP RET.CODE 2        @DL2982P 01300029
00BD72 5841 0000            00000 15847+         L     R4,0(R1) .        GET BEGIN-ADDRESS           @DL2982P 01350029
00BD76 5A41 0004            00004 15848+         A     R4,4(R1) .        GET END-ADDRESS             @DL2982P 01400029
00BD7A 4144 0001            00001 15849+         LA    R4,1(R4) .        E+1=E                       @DL2982P 01450029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00BD7E 8A40 000B            0000B 15850+         SRA   R4,11 .           TRANSFORM TO BEGIN OF       @DL2982P 01500029
00BD82 8B40 000B            0000B 15851+         SLA   R4,11 .           *  CURR. PARTITION          @DL2982P 01550029
00BD86 5040 D1DE            0BEF4 15852+         ST    R4,ENDADR .       SAVE                        @DL2982P 01600029
00BD8A 5850 D1EE            0BF04 15853+         L     R5,PBMASK .       GET THE MASK                @DL2982P 01650029
00BD8E 5841 0000            00000 15854+         L     R4,0(R1) .        GET BEGIN-ADDRESS           @DL2982P 01700029
00BD92 1454                       15855+         NR    R5,R4 .           DOES IT POINT TO PAGE-      @DL2982P 01750029
00BD94 4780 D08E      0BDA4       15856+         BZ    INIT .            *  BEGIN ?                  @DL2982P 01800029
00BD98 8A40 000B            0000B 15857+         SRA   R4,11 .           TRANSFORM THE ADDRESS       @DL2982P 01850029
00BD9C 4144 0001            00001 15858+         LA    R4,1(R4) .        *  SO THAT IT POINTS TO     @DL2982P 01900029
00BDA0 8B40 000B            0000B 15859+         SLA   R4,11 .           *  NEXT PAGE BEGIN          @DL2982P 01950029
00BDA4 4B40 D1F2            0BF08 15860+INIT     SH    R4,CONH2K .       SUBTRACT 2K                 @DL2982P 02000029
00BDA8 5040 D1DA            0BEF0 15861+         ST    R4,BEGAD .                                    @DL2982P 02050029

00BDAC 5880 D1DA            0BEF0 15863+NEWPAGE  L     R8,BEGAD .        UPDATE THE                  @DL2982P 02100029
00BDB0 4A80 D1F2            0BF08 15864+         AH    R8,CONH2K .       *  BEGIN-                   @DL2982P 02150029
00BDB4 5080 D1DA            0BEF0 15865+         ST    R8,BEGAD .        *  ADDRESS                  @DL2982P 02200029
00BDB8 5980 D1DE            0BEF4 15866+         C     R8,ENDADR .       ALL PAGES HANDLED ?         @DL2982P 02250029
00BDBC 47B0 D172      0BE88       15867+         BNL   NEXT .            IF YES                      @DL2982P 02300029
00BDC0 5982 0008            00008 15868+         C     R8,8(R2) .        COMPARE WITH ORIGIN         @DL2982P 02350029
00BDC4 4740 D17A      0BE90       15869+         BL    RETC4 .           IF PAGE NOT IN PARTITION    @DL2982P 02400029
00BDC8 5982 000C            0000C 15870+         C     R8,12(R2) .       COMPARE WITH END            @DL2982P 02450029
00BDCC 47B0 D17A      0BE90       15871+         BNL   RETC4 .           IF PAGE NOT IN PARTITION    @DL2982P 02500029
00BDD0 8A80 000B            0000B 15872+         SRA   R8,11 .           PAGE#                       @DL2982P 02550029
00BDD4 8B80 0001            00001 15873+         SLA   R8,1 .            POINTER TO APPR.            @DL2982P 02600029
00BDD8 5A80 D1EA            0BF00 15874+         A     R8,PTBEGIN .      *  PAGE-T. ENTRY            @DL2982P 02650029
00BDDC 9104 8001      00001       15875+CHKVALP  TM    1(R8),INVP .      PAGE INVALID ?              @DL2982P 02700029
00BDE0 4710 D0E6      0BDFC       15876+         BO    POPGQU .          YES                         @DL2982P 02750029
00BDE4 4838 0000            00000 15877+         LH    R3,0(R8) .        GET PT-ENTRY                @DL2982P 02800029
00BDE8 8A30 0003            00003 15878+         SRA   R3,THREE .        ELIM. LOW ORDER BITS        @DL2982P 02850029
00BDEC 5030 D1E6            0BEFC 15879+         ST    R3,PFRNU .        STORE P.FR. NUMBER          @DL2982P 02900029
00BDF0 8B30 0003            00003 15880+         SLA   R3,THREE .        R3 NOW CONTAINS THE         @DL2982P 02950029
00BDF4 1A36                       15881+         AR    R3,R6 .           STORE THE POINTER TO        @DL2982P 03000029
00BDF6 5030 D1E2            0BEF8 15882+         ST    R3,PFRENTRY .     *  P.FR.T. ENTRY            @DL2982P 03050029
00BDFA 1B36                       15883+         SR    R3,R6 .                                       @DL2982P 03100029
00BDFC 4190 E352            08638 15884+POPGQU   LA    R9,PGQU .         GET POINTER TO PG-QUEUE     @DL2982P 03150029
00BE00 5990 E48A            08770 15885+QULOOP   C     R9,AEOPGQU .      END OF PG-QUEUE ?           @DL2982P 03200029
00BE04 4780 D112      0BE28       15886+         BE    NOTINQU .         YES,BRANCH                  @DL2982P 03250029
00BE08 5849 0000            00000 15887+         L     R4,0(R9) .        IS THIS PAGE                @DL2982P 03300029
00BE0C 5440 F9FA            09CE0 15888+         N     R4,MASK .         *  CONTAINED                @DL2982P 03350029
00BE10 5940 D1DA            0BEF0 15889+         C     R4,BEGAD .        *  IN THE QUEUE ?           @DL2982P 03400029
00BE14 4780 D182      0BE98       15890+         BE    RETC8 .           YES, GO POST RET.CODE 8     @DL2982P 03450029
00BE18 4199 0004            00004 15891+         LA    R9,4(R9) .        BUMP UP TO NEXT ENTRY       @DL2982P 03500029
00BE1C 47F0 D0EA      0BE00       15892+         B     QULOOP .                                      @DL2982P 03550029
00BE20 9610 D1F4      0BF0A       15893+INVLST   OI    RETC,16 .         INDICATE ERROR              @DL2982P 03552029
00BE24 47F0 D1C2      0BED8       15894+         B     RET .             RETURN TO USER              @DL2982P 03554029

00BE28 9104 8001      00001       15896+NOTINQU  TM    1(R8),INVP .      PAGE INVALID ?              @DL2982P 03600029
00BE2C 4710 D126      0BE3C       15897+         BO    ACTION .          YES                         @DL2982P 03650029
00BE30 5840 D1E2            0BEF8 15898+         L     R4,PFRENTRY .     IS THE PAGE PFIXED          @DL2982P 03700029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00BE34 9102 4001      00001       15899+         TM    1(R4),SP .          *  OR TFIXED ?               @DL2982P 03750029
00BE38 4710 D182      0BE98       15900+         BO    RETC8 .             YES,GO TO POST RET.CODE 8    @DL2982P 03800029


00BE3C 95D9 D1F6      0BF0C       15902+ACTION   CLI   SVCID,REL .         IS IT SVC  RELPAG;           @DL2982P 03850029
00BE40 4780 D192      0BEA8       15903+         BE    RELE .              YES                          @DL2982P 03900029
00BE44 9104 8001      00001       15904+         TM    1(R8),INVP .        PAGE INVALID ?               @DL2982P 03950029
00BE48 4710 D096      0BDAC       15905+         BO    NEWPAGE .           YES                          @DL2982P 04000029
00BE4C 5890 D1E6            0BEFC 15906+         L     R9,PFRNU .          GET # OF PAGE-FRAMES         @DL2982P 04050029
00BE50 8B90 000B            0000B 15907+         SLA   R9,ELEVEN .         POINT TO BEGIN OF FRANE      @DL2982P 04100029
00BE54 0949                       15908+         ISK   R4,R9 .             INSERT STORAGE KEY           @DL2982P 04150029
00BE56 4240 D1F5            0BF0B 15909+         STC   R4,STORK .                                       @DL2982P 04200029
00BE5A 94FB D1F5      0BF0B       15910+         NI    STORK,X'FF'-RBIT .  SET OFF REFERENCE BIT        @DL2982P 04250029
00BE5E 9102 D1F5      0BF0B       15911+         TM    STORK,CBIT .        CBIT ON ?                    @DL2982P 04300029
00BE62 4710 D18A      0BEA0       15912+         BO    POTQ01 .            YES,POINT TO Q01-HEADER      @DL2982P 04350029
00BE66 5870 ED32            09018 15913+         L     R7,Q00 .            POINT R7 TO Q00-HEADER       @DL2982P 04400029
00BE6A 4590 F888            09B6E 15914+INSERT1  BAL   R9,REMOVE .         REMOVE THE PAGE-FRAME        @DL2982P 04450029
00BE6E 4590 F89A            09B80 15915+         BAL   R9,INSTOP .         INSERT IN Q00 OR Q01         @DL2982P 04500029
00BE72 4340 D1F5            0BF0B 15916+         IC    R4,STORK .          GET STORAGE KEY              @DL2982P 04550029
00BE76 5890 D1E6            0BEFC 15917+         L     R9,PFRNU .          POINT TO BEGIN OF            @DL2982P 04600029
00BE7A 8B90 000B            0000B 15918+         SLA   R9,ELEVEN .         *  STORAGE BLOCK             @DL2982P 04650029
00BE7E 0849                       15919+         SSK   R4,R9 .             SET STORAGE KEY              @DL2982P 04700029
00BE80 47F0 D096      0BDAC       15920+         B     NEWPAGE .           GO HANDLE NEXT PAGE          @DL2982P 04750029


00BE84 9602 D1F4      0BF0A       15922+RETC2    OI    RETC,2 .            SET 2-BIT IN RETURN-CODE     @DL2982P 04800029
00BE88 4111 0008            00008 15923+NEXT     LA    R1,8(R1) .          BUMP UP TO NEXT ENTRY        @DL2982P 04850029
00BE8C 47F0 D04A      0BD60       15924+         B     CHKEND .            GO HANDLE NEXT ENTRY         @DL2982P 04900029


00BE90 9604 D1F4      0BF0A       15926+RETC4    OI    RETC,4 .            SET 4-BIT IN RETURN-CODE     @DL2982P 04950029
00BE94 47F0 D096      0BDAC       15927+         B     NEWPAGE .           GO HANDLE NEXT PAGE          @DL2982P 05000029
00BE98 9608 D1F4      0BF0A       15928+RETC8    OI    RETC,8 .            SET RETURN-CODE 8            @DL2982P 05050029
00BE9C 47F0 D096      0BDAC       15929+         B     NEWPAGE .           GO TO HANDLE NEXT PAGE       @DL2982P 05100029
00BEA0 5870 ED3E            09024 15930+POTQ01   L     R7,Q01 .            POINT R7 TO Q01-HEADER       @DL2982P 05150029
00BEA4 47F0 D154      0BE6A       15931+         B     INSERT1 .                                        @DL2982P 05200029
00BEA8 9601 8001      00001       15932+RELE     OI    1(R8),1 .           SET PAGE TO UNUSED           @DL2982P 05250029
00BEAC 9104 8001      00001       15933+         TM    1(R8),INVP .        PAGE INVALID ?               @DL2982P 05300029
00BEB0 4710 D096      0BDAC       15934+         BO    NEWPAGE .           YES,GO TO NEXT PAGE          @DL2982P 05350029
00BEB4 4840 067E            0067E 15935+         LH    R4,PIK .            GET PIK                      @DL2982P 05400029
00BEB8 4144 0005            00005 15936+         LA    R4,5(R4) .          SET INVALID AND              @DL2982P 05450029
                                  15937+*                                  *  UNUSED BIT ON             @DL2982P 05500029
00BEBC 4048 0000            00000 15938+         STH   R4,0(R8) .          MODIFY PAGE-TABLE-ENTRY      @DL2982P 05550029
00BEC0 B20D 0000                  15939+         PTLB  .                   PURGE TABLE                  @DL2982P 05600029
00BEC4 5840 D1E2            0BEF8 15940+         L     R4,PFRENTRY .       POINT TO PAGE-FRAME T.       @DL2982P 05650029
00BEC8 92FF 4004      00004       15941+         MVI   4(R4),X'FF' .       SET PAGE-FR.T. ENTRY         @DL2982P 05700029
00BECC 92FF 4005      00005       15942+         MVI   5(R4),X'FF' .       *  TO UNUSED                 @DL2982P 05750029
00BED0 9200 D1F5      0BF0B       15943+         MVI   STORK,0 .           SET STORAGE KEY ZERO         @DL2982P 05800029
00BED4 47F0 D154      0BE6A       15944+         B     INSERT1 .                                        @DL2982P 05850029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00BED8 5840 A004            00004 15946+RET      L     R4,PIBSAVE .       GET USER'S SAVE AREA         @DL2982P 05900029
00BEDC 4144 0000            00000 15947+         LA    R4,0(R4) .         ZERO HIGH BYTE               @DL2982P 05950029
00BEE0 1B99                       15948+         SR    R9,R9 .            POST RETURN-                 @DL2982P 06000029
00BEE2 4390 D1F4            0BF0A 15949+         IC    R9,RETC .          *  CODE IN REG. 15           @DL2982P 06050029
00BEE6 5094 0028            00028 15950+         ST    R9,40(R4) .        *  POS. OF SAVE-AREA         @DL2982P 06100029
00BEEA 47F0 E344      0862A       15951+         B     PFEXIT .           END OF ROUTINE               @DL2982P 06150029



00BEF0                            15953+         DS    0F .                                            @DL2982P 06250029
00BEF0                            15954+BEGAD    DS    F .                ADDRESS OF CURRENT PAGE      @DL2982P 06300029
00BEF4                            15955+ENDADR   DS    F .                ADDRESS OF LAST PAGE         @DL2982P 06350029
00BEF8                            15956+PFRENTRY DS    F .                POINTER TO P.FR.T. ENTRY     @DL2982P 06400029
00BEFC                            15957+PFRNU    DS    F .                NUMBER OF PAGE FRAME         @DL2982P 06450029
00BF00                            15958+PTBEGIN  DS    F .                POINTER TO PAGE TABLE        @DL2982P 06500029
00BF04 000007FF                   15959+PBMASK   DC    X'000007FF' .      MASK FOR TRANSFORMATION      @DL2982P 06550029
00BF08 0800                       15960+CONH2K   DC    H'2048' .                                       @DL2982P 06600029
00BF0A                            15961+RETC     DS    C .                RETURN-CODE                  @DL2982P 06650029
00BF0B                            15962+STORK    DS    C .                STORAGE KEY                  @DL2982P 06700029
00BF0C                            15963+SVCID    DS    C .                EITHER RELPAG OR P.OUT       @DL2982P 06750029
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                        15966+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@DL2982F 08650029
                        15967+*                                                                        @DL2982F 08700029
                        15968+*                                                                        @DL2982F 08750029
                        15969+*       P A G E I N  ( S V C  87 )                                       @DL2982F 08800029
                        15970+*                                                                        @DL2982F 08850029
                        15971+*                                                                        @DL2982F 08900029
                        15972+*       ENTRY POINT:  SVC 87                                             @DL2982F 08950029
                        15973+*                                                                        @DL2982F 09000029
                        15974+*       INPUT:    R1  POINTS TO A PARAMETER LIST                       @DL2982F 09050029
                        15975+*                 R0  POINTS TO AN ECB OR IS ZERO IF NO ECB            @DL2982F 09100029
                        15976+*                     PRESENT                                          @DL2982F 09150029
                        15977+*                                                                        @DL2982F 09200029
                        15978+*       OUTPUT:   PAGES REQUESTED BY THE PARAMETER LIST ARE            @DL2982F 09250029
                        15979+*                 SET IN THE HOLD QUEUE (HQ).                          @DL2982F 09300029
                        15980+*                 DIFFERENT CONDITIONS ARE POSTED IN THE ECB           @DL2982F 09350029
                        15981+*                 BYTE 2 IF AN ECB IS PRESENT                          @DL2982F 09400029
                        15982+*                                                                        @DL2982F 09450029
                        15983+*       EXIT:     TO DISPATCHER, VIA PFEXIT                            @DL2982F 09500029
                        15984+*                                                                        @DL2982F 09550029
                        15985+*       OTHER SUPERVISOR ROUTINES USED: GETPADR,GETNPADR,              @DL2982F 09600029
                        15986+*                 GENENT AND ENQU                                      @DL2982F 09650029
                        15987+*                                                                        @DL2982F 09700029
                        15988+*                                                                        @DL2982F 09750029
                        15989+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@DL2982F 09800029


                        15991+*                                                                        @DL2982F 09900029
                        15992+*       THIS ROUTINE INSERTS THE PAGEIN REQUEST INTO THE                 @DL2982F 10000029
                        15993+*       PAGETAB. IF THE PAGETAB IS FULL THE REQUEST IS IGNORED           @DL2982F 10550029
                        15994+*                                                                        @DL2982F 10600029


                    082E6 15996+        USING PMGRADR,RE,RF .                                      @DL2982F 10700029
00BF0D 00
00BF0E 58E0 0778        00778 15997+SVPGIN  L     RE,APMGR .          ESTABLISH 1ST AND 2ND BASE   @DL2982F 10750029
00BF12 58F0 E4A6        0878C 15998+        L     RF,BSEREG2 .        FOR PAGE MANAGER             @DL2982F 10800029
00BF16 1220             00000 15999+        LTR   R2,R0 .             ECB SPECIFIED                @DL2982F 10805029
00BF18 4780 D21A  0BF30 00000 16000+        BZ    SKIPVAL .           NO, SKIP VALIDATION          @DL2982F 10810029
00BF1C 4140 0001        00001 16001+        LA    R4,D1 .             MAKE CONTENT POSITIV         @DL2982F 10815029
00BF20 4122 0002        00002 16002+        LA    R2,D2(R2) .                                      @DL2982F 10820029
00BF24 4590 D3F0        0C106 16003+        BAL   R9,VALIDATE         VALIDATE ECB BITS ADDR.      @DL2982F 10825029
00BF28 47F0 E344  0862A 00000 16004+        B     PFEXIT .            INVALID ADDRESS, IGNORE      @DL2982F 10830029
00BF2C 9200 2000  00000 00000 16005+        MVI   D0(R2),ZERO .       RESET ECB BITS               @DL2982F 10835029
00BF30 9180 A004  00004 00000 16006+SKIPVAL  TM    PIBDATFL,TRAM .     TASK IN REAL MODE            @DL2982F 10850029
00BF34 4780 D338  0C04E 00000 16007+        BZ    PSTRL .             YES, IGNORE REQUEST          @DL2982F 10900029
00BF38 5870 D526        0C23C 16008+        L     R7,AEOPGTAB .       IS PAGETAB                   @DL2982F 10950029
00BF3C 5970 D52A        0C240 16009+        C     R7,PGTABEND .       FULL                         @DL2982F 11000029
00BF40 47B0 D32A  0C040 00000 16010+        BNL   PSTFULL .           YES, IGNORE REQUEST          @DL2982F 11050029
                        16011+*             INSERT ENTRY IN PAGETAB                                @DL2982F 11100029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00000 16012+         USING PGTABADR,R7 .                                    @DL2982F 11150029
00BF44 4530 D3CE           0C0E4 16013+         BAL   R3,VALLIST .       VALIDATE LIST                 @DL2982F 11200029
00BF48 47F0 D346     0C05C       16014+         B     PSTINVLI .        INVALID ADDR                  @DL2982F 11225029
00BF4C 5010 7000           00000 16015+         ST    R1,PGTBTIK .      LIST O.K. STORE LIST POINTER @DL2982F 11250029
00BF50 D200 7000 0753 00000 00753 16016+         MVC   PGTBTIK(L1),TIK+D1  MOVE TIK                    @DL2982F 11300029
00BF56 5000 7004           00004 16017+         ST    R0,PGTBIND .      STORE ECB POINTER OR ZERO     @DL2982F 11700029
00BF5A 9200 7004     00004       16018+         MVI   PGTBIND,ZERO .    CLEAR POST INDICATORS         @DL2982F 11750029
00BF5E 4177 0008           00008 16019+         LA    R7,D8(R7) .       CALC. NEW ENDADDR OF PAGETAB @DL2982F 11800029
00BF62 5070 D526           0C23C 16020+         ST    R7,AEOPGTAB .     AND STORE IT                  @DL2982F 11850029
                                 16021+         DROP  R7 .                                           @DL2982F 11900029
                                 16022+*              ACTIVATE PAGEIN TASK                           @DL2982F 11950029
                           0BF67 16023+PGINGTE  EQU   *+1 .                                          @DL2982F 12000029
00BF66 4700 E344     0862A       16024+         NOP   PFEXIT .          BRANCH IF PAGEIN TASK BUSY    @DL2982F 12050029
00BF6A 96F0 D251     0BF67       16025+         OI    PGINGTE,X'F0' .   CLOSE GATE OF PAGEIN TASK     @DL2982F 12100029
00BF6E 9206 073D     0073D       16026+         MVI   SELECT,PGIN .     * ACTIVATE                    @DL2982F 12150029
00BF72 5870 0790           00790 16027+         L     R7,ASYSBLK0 .     * PAGEIN                      @DL2982F 12200029
00BF76 4177 0028           00028 16028+         LA    R7,PGNBLOCK-SYSBLK0(R7) *                       @DL2982F 12250029
00BF7A 5070 0794           00794 16029+         ST    R7,ASYSBLKX .     * TASK                        @DL2982F 12300029

                                 16031+*        THIS ROUTINE HANDLES THE PAGEIN REQUEST              @DL2982F 12400029
                                 16032+*        ON TOP OF PAGETAB                                    @DL2982F 12450029
                                 16033+*              REGISTER USAGE                                 @DL2982F 12455029
                                 16034+*        R0    POINTS TO ECB IF PRESENT OR IS ZERO            @DL2982F 12460029
                                 16035+*        R1    POINTS TO PARAMETER LIST                       @DL2982F 12465029
                                 16036+*        R2    CONTAINS ADDR OF PAGE TO BE HANDLED            @DL2982F 12470029
                                 16037+*        R4    CONTAINS REMAINING LENGTH                      @DL2982F 12475029
                                 16038+*        R8    POINTS TO PAGETAB ENTRY                        @DL2982F 12480029
                                 16039+*        R9    LINK REGISTER                                  @DL2982F 12482529
                                 16040+*        RA    POINTS TO PIB OF USER TASK                     @DL2982F 12485029

                           00000 16042+         USING PGTABADR,R8 .                                    @DL2982F 12550029
00BF7E 4180 D532           0C248 16043+         LA    R8,PAGETAB .      SET BASE REGISTER FOR PAGETAB@DL2982F 12600029
00BF82 43A0 8000           00000 16044+PGINIT   IC    RA,PGTBTIK .      GET USER TASK ID              @DL2982F 12650029
00BF86 54A0 F9FE           09CE4 16045+         N     RA,MASK1 .                                      @DL2982F 12700029
00BF8A 42A0 0753           00753 16046+         STC   RA,TIK+D1  .      STORE TASK ID                 @DL2982F 12750029
00BF8E 4AA0 06CC           006CC 16047+         AH    RA,YPIB2TAB .     POINT TO PIBEXTENTION         @DL2982F 12850029
00BF92 D200 067F A00D 0067F 0000D 16048+         MVC   PIK+D1(L1),PIBPIK+D1 STORE PART. ID             @DL2982F 12900029
00BF98 41AA 0100           00100 16049+         LA    RA,PIBTAB-PIB2TAB(RA) SET UP PIB POINTER        @DL2982F 12910029
                           00000 16050+         USING SYSBLKS,R7 .                                    @DL2982F 13000029
00BF9C 5870 0794           00794 16051+         L     R7,ASYSBLKX .                                   @DL2982F 13050029
00BFA0 D200 7002 0753 00002 00753 16052+         MVC   SYSPIK(L1),TIK+D1  .                            @DL2982F 13100029
                                 16053+         DROP  R7 .                                            @DL2982F 13125029
00BFA6 1B11                      16054+         SR    R1,R1 .           CLEAR REGISTER                @DL2982F 13150029
00BFA8 BF17 8001           00001 16055+         ICM   R1,M7,PGTLISTP .  GET LIST POINTER              @DL2982F 13200029
00BFAC 4590 F254           0953A 16056+NEXTENTR BAL   R9,GETPADR .      GET 1ST PAGE FOR THIS REQUEST@DL2982F 13250029
00BFB0 47F0 D35C     0C072       16057+         B     PGINEND .         END OF LIST REACHED           @DL2928F 13305029
00BFB4 4590 D3F0           0C106 16058+VALIDE   BAL   R9,VALIDATE .     VALIDATE RETURNED ADDR        @DL2982F 13350029
00BFB8 47F0 D316     0C02C       16059+         B     PSTINVPG .        INVALID ADDR                  @DL2982F 13400029
00BFBC B152 0000           00000 16060+         LRA   R5,D0(R2) .       PAGE IN CORE                  @DL2982F 13450029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00BFC0 4770 D2F2      0C008       16061+         BNZ   GENPGQUE .          NO, GENER. PGQU ENTRY        @DL2982F 13500029
00BFC4 1875                       16062+         LR    R7,R5 .             SAVE REAL ADDR               @DL2982F 13550029
00BFC6 5450 F9FA            09CE0 16063+         N     R5,MASK .           GET OFFSET                   @DL2982F 13600029
00BFCA 8850 0008            00008 16064+         SRL   R5,D8 .             IN PFT                       @DL2982F 13650029
00BFCE 1835                       16065+         LR    R3,R5 .             SAVE OFFSET                  @DL2982F 13700029
00BFD0 5A50 07CC            007CC 16066+         A     R5,APFT .           GET ADDR OF PFTE             @DL2982F 13750029
00BFD4 9102 5001      00001       16067+         TM    D1(R5),SP .         PAGE FIXED                   @DL2982F 13800029
00BFD8 4710 D2DE      0BFF4       16068+         BO    GETNXTPG .          YES, IGNORE THIS PAGE        @DL2982F 13850029
00BFDC 18C4                       16069+         LR    RC,R4 .             SAVE R4                      @DL2982F 13900029
00BFDE 5860 07CC            007CC 16070+         L     R6,APFT .           R6 POINTS TO PFT             @DL2982F 13950029
00BFE2 4590 F888            09B6E 16071+         BAL   R9,REMOVE .         REMOVE PAGE FRAME FROM       @DL2982F 14000029
                                  16072+*                                  SELECTION POOL               @DL2982F 14050029
00BFE6 B213 7000      00000       16073+         RRB   D0(R7) .            SET REFERENCE BIT TO ZERO    @DL2982F 14100029
00BFEA 5870 ED3A            09020 16074+         L     R7,HQ .             INSERT PAGE AT               @DL2982F 14150029
00BFEE 4590 F8B4            09B9A 16075+         BAL   R9,INSBOT .         BOTTOM OF HQ                 @DL2982F 14200029
00BFF2 184C                       16076+         LR    R4,RC .             RELOAD SAVED R4              @DL2982F 14250029
00BFF4 9102 8004      00004       16077+GETNXTPG TM    PGTBIND,TERMIN .    TERMIN. REQUIRED             @DL2982F 14300029
00BFF8 4710 D354      0C06A       16078+         BO    PGINENDT .          YES, SIMULATE END            @DL2982F 14350029
00BFFC 4590 F266            0954C 16079+         BAL   R9,GETNPADR .       GET NEXT PAGE TO BE HANDL    @DL2982F 14400029
00C000 47F0 D35C      0C072       16080+         B     PGINEND .           END OF LIST REACHED          @DL2982F 14450029
00C004 47F0 D29E      0BFB4       16081+         B     VALIDE .            HANDLE THE PAGE              @DL2982F 14500029

                                  16083+*                                  PREPARE GENERATION OF PGQU ENTRY @DL2982F 14600029

00C008 5020 0090            00090 16085+GENPGQUE ST    R2,TRADDR .         STORE PAGE ADDR              @DL2982F 14700029
00C00C 909E 0850            00850 16086+         STM   R9,RE,ERA .         SAVE R9 TO RE IN ERA         @DL2982F 14710029
00C010 4150 D2DE            0BFF4 16087+         LA    R5,GETNXTPG .       LOAD RETURN ADDR AFTER       @DL2982F 14800029
                                  16088+*                                  PAGE I/O IS HANDLED          @DL2982F 14850029
00C014 5050 0024            00024 16089+         ST    R5,SVOLDP+D4 .      SET UP PSW, USING SVC OLD    @DL2982F 14900029
00C018 AD00 0020      00020       16090+         STOSM SVOLDP,M0 .         USE CURRENT SYSTEM MASK      @DL2982F 14925029
00C01C 920C 0021      00021       16091+         MVI   SVOLDP+D1,ECBIT+MCBIT SET ON MC,EC BIT, SET OFF @DL2982F 14950029
                                  16092+*                                      PP-BIT               @DL2982F 14975029
00C020 9220 0BFD      00BFD       16093+         MVI   HLDPSW,SVCOPSW .    IDENT. PSW FOR GENENT        @DL2982F 15000029
00C024 4590 0BAA            00BAA 16094+         BAL   R9,GENENT .         SAVE STATUS                  @DL2982F 15050029
00C028 47F0 E91E      08C04       16095+         B     ENQU .              SET PAGE I/O REQU IN PGQU    @DL2982F 15075029

                                  16097+*                                  ROUTINES TO SET ECB-BITS     @DL2982F 15150029

00C02C 9620 8004      00004       16099+PSTINVPG OI    PGTBIND,INVPG .     INDICATE INVALID ADDR        @DL2982F 15250029
00C030 47F0 D2DE      0BFF4       16100+         B     GETNXTPG .          GET NEXT PAGE                @DL2982F 15300029

00C034 9610 8004      00004       16102+PSTNEG   OI    PGTBIND,LENGNEG .   INDICATE NEGATIV LENGTH     @DL2982F 15400029
00C038 4111 0008            00008 16103+         LA    R1,D8(R1) .         POINT TO NEXT LIST ENTRY     @DL2982F 15450029
00C03C 47F0 D296      0BFAC       16104+         B     NEXTENTR .          BEGIN TO HANDLE THE ENTRY    @DL2982F 15500029

00C040 1250                       16106+PSTFULL  LTR   R5,R0 .            ECB PRESENT                  @DL2982F 15600029
00C042 4780 E344      0862A       16107+         BZ    PFEXIT .            NO, RETURN TO DISPATCHER     @DL2982F 15650029
00C046 96C0 5002      00002       16108+         OI    D2(R5),PGTFULL+TRABIT POST NO PAGETAB ENTRY      @DL2982F 15700029
00C04A 47F0 E344      0862A       16109+         B     PFEXIT .            RETURN TO DISPATCHER         @DL2982F 15750029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C04E 1250                     16111+PSTRL    LTR   R5,R0 .            ECB PRESENT                  @DL2982F 15850029
00C050 4780 E344      0862A     16112+         BZ    PFEXIT .           NO, RETURN TO DISPATCHER     @DL2982F 15900029
00C054 9680 5002      00002     16113+         OI    D2(R5),TRABIT .    POST ECB                     @DL2982F 15950029
00C058 47F0 E344      0862A     16114+         B     PFEXIT .           RETURN TO DISPATCHER         @DL2982F 16000029
00C05C 1250                     16115+PSTINVLI LTR   R5,R0 .            ECB PRESENT                  @DL2982F 16001029
00C05E 4780 E344      0862A     16116+         BZ    PFEXIT .           NO, RETURN TO DISPATCHER     @DL2982F 16002029
00C062 9688 5002      00002     16117+         OI    D2(R5),TRABIT+INVLI POST INV. ADDR              @DL2982F 16003029
00C066 47F0 E344      0862A     16118+         B     PFEXIT .           RETURN TO DISPATCHER         @DL2982F 16004029


                                16120+*                                                             @DL2982F 16100029
                                16121+*        THIS PART IS ENTERED IF THE PAGEIN REQUEST           @DL2982F 16150029
                                16122+*        IS HANDLED OR THE TERMINATOR BIT IS SET ON           @DL2982F 16200029
                                16123+*        BY THE SCANPGT ROUTINE                               @DL2982F 16250029
                                               R8 POINTS TO PAGETAB ENTRY                           @DL2982F 16300029

00C06A 9283 A000      00000     16125+PGINENDT MVI   PIBFLG,READY .     READY TASK                   @DL2982F 16350029
00C06E 47F0 D374      0C08A     16126+         B     NOPST .            SKIP POSTING OF ECB          @DL2982F 16375029
00C072 9680 8004      00004     16127+PGINEND  OI    PGTBIND,TRABIT .   IND. REQU. COMPL.            @DL2982F 16400029
00C076 1B55                     16128+         SR    R5,R5 .                                         @DL2982F 16450029
00C078 BF57 8005            00005 16129+         ICM   R5,M7,PGTECBP .GET POINTER TO ECB            @DL2982F 16500029
00C07C 4780 D374      0C08A     16130+         BZ    NOPST .            BRANCH IF NO ECB PRESENT     @DL2982F 16550029
00C080 D200 5002 8004 00002 00004 16131+         MVC   D2(L1,R5),PGTBIND .POST USERS ECB             @DL2982F 16600029
00C086 9601 A000      00000     16132+         OI    PIBFLG,IOCMPL .    UNWAIT REQU. TASK            @DL2982F 16625029
00C08A 4590 D38A            0C0A0 16133+NOPST    BAL   R9,DELETENT .      DELETE ENTRY FROM PAGETAB    @DL2982F 16650029
00C08E 1978                     16134+         CR    R7,R8 .            IF ANOTHER REQU. PENDING     @DL2982F 16700029
00C090 4720 D26C      0BF82     16135+         BH    PGINIT .           BRANCH                       @DL2982F 16750029
00C094 940F D251      0BF67     16136+GATEOP   NI    PGINGTE,X'0F' .    OPEN GATE FOR PAGEIN TASK    @DL2982F 16800029
00C098 9200 073D      0073D     16137+         MVI   SELECT,M0 .        SET PAGEIN TASK NOT DISPATCH @DL2982F 16850029
00C09C 47F0 E344      0862A     16138+         B     PFEXIT .           RETURN TO DISPATCHER         @DL2982F 16900029


                                16140+*        THIS ROUTINE DELETES ONE ENTRY FROM PAGETAB          @DL2982F 17000029
                                16141+*        R8 POINTS TO THE ENTRY                               @DL2982F 17050029
                                16142+*        R9 IS RETURN REGISTER                                @DL2982F 17100029

00C0A0 5870 D526            0C23C 16144+DELETENT L     R7,AEOPGTAB .      LOAD ENDADDR OF PAGETAB      @DL2982F 17200029
00C0A4 1B78                     16145+         SR    R7,R8 .                                         @DL2982F 17250029
00C0A6 1808                     16146+         LR    R0,R8 .            SAVE R8                      @DL2982F 17255029
00C0A8 4970 D52E            0C244 16147+MOVELOOP CH    R7,CON256 .        LENGTH GT 256                @DL2982F 17260029
00C0AC 47D0 D3AC      0C0C2     16148+         BNH   MOVEREST .         NO, MOVE REMAINING LENGTH    @DL2982F 17265029
00C0B0 D2FF 8000 8008 00000 00008 16149+         MVC   D0(L256,R8),D8(R8) MOVE 256 BYTES               @DL2982F 17270029
00C0B6 4A80 D52E            0C244 16150+         AH    R8,CON256 .        INCREASE LOCATION ADDR       @DL2982F 17275029
00C0BA 4B70 D52E            0C244 16151+         SH    R7,CON256 .        DECREASE REMAINING LENGTH    @DL2982F 17280029
00C0BE 47F0 D392      0C0A8     16152+         B     MOVELOOP .         MOVE NEXT 256 BYTES OR REST  @DL2982F 17285029
00C0C2 0670                     16153+MOVEREST BCTR  R7,R0 .            LENGTH FOR EXECUTE           @DL2982F 17290029
00C0C4 1277                     16154+         LTR   R7,R7 .            LENGTH NEGATIVE              @DL2982F 17293029
00C0C6 4740 D3B8      0C0CE     16155+         BM    DELETFIN .         YES, DELETE FINISHED         @DL2982F 17296029
00C0CA 4470 D3C8            0C0DE 16156+         EX    R7,MOVERST .       DELETE ENTRY                 @DL2982F 17300029
00C0CE 5870 D526            0C23C 16157+DELETFIN L     R7,AEOPGTAB .      UPDATE                       @DL2982F 17350029
00C0D2 4B70 08F2            008F2 16158+         SH    R7,H8 .            ENDADDR OF                   @DL2982F 17400029
00C0D6 5070 D526            0C23C 16159+         ST    R7,AEOPGTAB .      PAGETAB                      @DL2982F 17450029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C0DA 1880                      16160+         LR    R8,R0 .            RELOAD R8                    @DL2982F 17470029
00C0DC 07F9                      16161+         BR    R9 .               RETURN                       @DL2982F 17500029
00C0DE D200 8000 8008 00000 00008 16162+MOVERST  MVC   D0(1,R8),D8(R8) .  MOVE REST OF PAGETAB         @DL2982F 17510029

                                 16164+*              THIS ROUTINE IS USED TO VALIDATE THE PARAMETER  @DL2982F 17600029
                                 16165+*              LIST POINTED TO BY R1                           @DL2982F 17650029
                                 16166+*              IF THE LIST IS TOTALY IN THE PARTITION, RETURN  @DL2982F 17675029
                                 16167+*              IS WITH R3 OFFSET 4.                            @DL2982F 17680029
                                 16168+*              IF THE LIST IS NOT TOTALY IN THE PARTITION,     @DL2982F 17700029
                                 16169+*              RETURN IS WITH R3 OFFSET 0.                     @DL2982F 17725029

00C0E4 1821                      16171+VALLIST  LR    R2,R1 .                                        @DL2982F 17800029
00C0E6 4140 0001           00001 16172+         LA    R4,D1 .            R4 POSITIVE                 @DL2982F 17850029
00C0EA 4122 0000           00000 16173+         LA    R2,D0(R2) .        CLEAR HIGH ORDER BYTE       @DL2982F 17875029
00C0EE 4590 D3F0           0C106 16174+SEARCHL  BAL   R9,VALIDATE .      VALIDATE LIST ADDR          @DL2982F 17900029
00C0F2 47F3 0000      00000      16175+         B     D0(R3) .           INVALID ADDR IGNORE REQU    @DL2982F 17950029
00C0F6 9500 2000      00000      16176+         CLI   D0(R2),M0 .        END OF LIST ?               @DL2982F 18000029
00C0FA 4122 0008           00008 16177+         LA    R2,D8(R2) .        UPDATE POINTER              @DL2982F 18050029
00C0FE 4780 D3D8      0C0EE      16178+         BE    SEARCHL .          NO, VALIDATE POINTER        @DL2982F 18100029
00C102 47F3 0004      00004      16179+         B     D4(R3) .           RETURN, LIST IS IN PARTITION @DL2982F 18150029

                                 16181+*              THIS ROUTINE CHECKS THE ADDR IN R2              @DL2982F 18250029
                                 16182+*              IF IT BELONGS TO THE PARTITION RETURN IS        @DL2982F 18300029
                                 16183+*              WITH R9 OFFSET 4.                               @DL2982F 18350029
                                 16184+*              IF THE ADDR IS NOT CORRECT RETURN IS            @DL2982F 18400029
                                 16185+*              WITH R9 OFFSET 0.                               @DL2982F 18450029

                           00000 16187+         USING BBOXADR,R5 .                                    @DL2982F 18550029
00C106 4850 067E           0067E 16188+VALIDATE LH    R5,PIK .           GET ENTRY OF                @DL2982F 18600029
00C10A 5A50 07D4           007D4 16189+         A     R5,ABBOX .         BOUNDARY BOX                @DL2982F 18650029
00C10E 9180 A004      00004      16190+         TM    PIBDATFL,TRAM .    REAL MODE                   @DL2982F 18651029
00C112 4710 D404      0C11A      16191+         BO    VIRTMOD .          NO, VIRTUAL                 @DL2982F 18652029
00C116 4B50 08F2           008F2 16192+         SH    R5,H8 .            YES, TEST REAL BOUNDARIES   @DL2982F 18653029
00C11A 5920 5008           00008 16193+VIRTMOD  C     R2,VIRTORP .       ADDR VALID                  @DL2982F 18700029
00C11E 0749                      16194+         BCR   L,R9 .             RETURN IF NOT               @DL2982F 18750029
00C120 5920 500C           0000C 16195+         C     R2,VIRTENDP .      ADDR VALID                  @DL2982F 18800029
00C124 07B9                      16196+         BCR   NL,R9 .            RETURN IF NOT               @DL2982F 18850029
00C126 1244                      16197+         LTR   R4,R4 .            LENGTH NEGATIV              @DL2982F 18900029
00C128 4740 D31E      0C034      16198+         BM    PSTNEG .           YES, INVALID                @DL2982F 18950029
00C12C 47F9 0004      00004      16199+         B     D4(R9) .           RETURN, PARAMETER CORRECT   @DL2982F 19000029
                                 16200+         DROP  R5 .                                         @DL2982F 19025029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  16202+*              THIS ROUTINE IS CALLED IF A TASK TERMINATES     @DL2982F 19100029
                                  16203+*              TO DELETE PAGETAB ENTRIES FROM THIS TASK        @DL2982F 19150029
                                  16204+*              OR TO WAIT FOR COMPLETION OF PAGE I/O           @DL2982F 19200029
                                  16205+*              R5 IS RETURN REGISTER                           @DL2982F 19250029

                            00000 16207+         USING PGTABADR,R8 .                                   @DL2982F 19350029
00C130 4180 D532            0C248 16208+SCANPGT  LA    R8,PAGETAB .       SCAN PAGETAB                 @DL2982F 19400029
00C134 5870 D526            0C23C 16209+         L     R7,AEOPGTAB .      STARTING FROM 2ND ENTRY      @DL2982F 19450029
00C138 1987                       16210+         CR    R8,R7 .            PAGETAB EMPTY                @DL2982F 19500029
00C13A 47B0 D46A      0C180       16211+         BNL   SCANFIN2 .         YES, BRANCH                  @DL2982F 19550029
00C13E 4188 0008            00008 16212+CNTSCAN0 LA    R8,D8(R8) .        POINT TO NEXT PAGETAB ENTRY  @DL2982F 19650029
00C142 1987                       16213+CNTSCAN1 CR    R8,R7 .            END OF PAGETAB REACHED       @DL2982F 19700029
00C144 47B0 D444      0C15A       16214+         BNL   SCANFIN1 .         YES, BRANCH                  @DL2982F 19750029
00C148 D500 8000 0753 00000 00753 16215+         CLC   PGTBTIK(L1),TIK+D1  BELONGS ENTRY TO TASK      @DL2982F 19800029
00C14E 4770 D428      0C13E       16216+         BNE   CNTSCAN0 .         NO, CONTINUE SCAN            @DL2982F 19810029
00C152 4590 D38A            0C0A0 16217+         BAL   R9,DELETENT .      YES, DELETE ENTRY FROM PAGETA@DL2982F 19850029
00C156 47F0 D42C      0C142       16218+         B     CNTSCAN1 .         CONTINUE SCAN                @DL2982F 19875029
                                  16219+*              SPECIAL HANDLING FOR FIRST ENTRY                @DL2982F 19900029
00C15A 4180 D532            0C248 16220+SCANFIN1 LA    R8,PAGETAB .       POINT TO 1ST ENTRY           @DL2982F 19950029
00C15E D500 8000 0753 00000 00753 16221+         CLC   PGTBTIK(L1),TIK+D1  PAGEIN TASK ACTIVE FOR      @DL2982F 20000029
                                  16222+*                                 TERMINATING TASK             @DL2982F 20050029
00C164 4770 D46A      0C180       16223+         BNE   SCANFIN2 .         NO, SCAN FINISHED            @DL2982F 20100029
00C168 9602 8004      00004       16224+         OI    PGTBIND,TERMIN .   MARK TERMIN. FOR THIS TASK   @DL2982F 20150029
00C16C 9287 A000      00000       16225+         MVI   PIBFLG,BOUND .     SET TASK IN WAIT FOR PAGEIN  @DL2982F 20200029
00C170 9608 A00F      0000F       16226+         OI    PIBFLG2,FETCHEOJ . MARK DETACH                  @DL2982F 20250029
00C174 58E0 0778            00778 16227+         L     RE,APMGR .         LOAD 1ST AND 2ND BASE        @DL2982F 20260029
00C178 58F0 E4A6            0878C 16228+         L     RF,BSEREG2 .       REGISTER FOR PAGE MANAGER    @DL2982F 20270029
00C17C 47F0 E344      0862A       16229+         B     PFEXIT .           GOTO DISPATCHER              @DL2982F 20300029
00C180 58B0 0844            00844 16230+SCANFIN2 L     RB,HEX1000    .    LOAD LOW CORE BASE           @D34RDFG 20400034
00C184 07F5                       16231+         BR    R5 .               RETURN                       @DL2982F 20450029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  16234+*        THIS ROUTINE IS CALLED FROM THE LOAD-LEVELLER         @DL2982F 20464029
                                  16235+*        AND INITIATES THE DELETION OF ALL PAGEIN REQUESTS     @DL2982F 20468029
                                  16236+*        FROM THE PAGETAB. ALSO THE PGQU ENTRY IS DELETED.     @DL2982F 20472029
                                  16237+*        R8 IS RETURN REGISTER                                 @DL2982F 20476029


00C186 906A D512            0C228 16239+TERMPGIN STM   R6,RA,TERMSAVE .   SAVE REGISTERS                @DL2982F 20500029
00C18A 4180 D532            0C248 16240+         LA    R8,PAGETAB .      PAGETAB                     @DL2982F 20502029
00C18E 5980 D526            0C23C 16241+         C     R8,AEOPGTAB .     EMPTY ?                     @DL2982F 20504029
00C192 47B0 D4D4      0C1EA       16242+         BNL   TERMFIN .         YES, RETURN                 @DL2982F 20506029
00C196 9104 8004      00004       16243+         TM    PGTBIND,TERMLL .  TERM. ALREADY IN PROCESS    @DL2982F 20508029
00C19A 4710 D4D4      0C1EA       16244+         BO    TERMFIN .         YES, RETURN                 @DL2982F 20510029
00C19E 9604 8004      00004       16245+         OI    PGTBIND,TERMLL .  INDICATE TERM IN PROCESS    @DL2982F 20512029
                                  16246+         DROP  R9                                            @DA03700 20512432
00C1A2 1BAA                       16247+         SR    RA,RA .           POINT TO                    @DL2982F 20514029
00C1A4 43A0 079E            0079E 16248+         IC    RA,PGNPTR .       PAGEIN SYSTEM TASK          @DL2982F 20516029
00C1A8 5AA0 0790            00790 16249+         A     RA,ASYSBLK0 .     BLOCK                       @DL2982F 20518029
                            00000 16250+         USING SYSBLKS,RA                                    @DL2982F 20520029
00C1AC 5880 A004            00004 16251+         L     R8,SYSAVAR .      GET SAVEAREA ADDR.          @DL2982F 20522029
00C1B0 4890 A000            00000 16252+         LH    R9,SYSPIBFL .     GET ADDR OF PAGEIN TASK PIBFL@DL2982F 20523029
                            00000 16253+         USING SVEARA,R8                                     @DL2982F 20524029
00C1B4 41A0 D4DE            0C1F4 16254+         LA    RA,CLEARTAB .                                 @DL2982F 20526029
00C1B8 50A0 800C            0000C 16255+         ST    RA,SVEPSW2 .      SET UP NEW PSW ADDR         @DL2982F 20528029
                            00000 16256+         USING SPIBADR,R9 .                                  @DL2982F 20528529
00C1BC 9283 9000      00000       16257+         MVI   SPIBFLG,READY .   SET PAGEIN TASK READY       @DL2982F 20529029
                                  16258+         DROP  R9 .                                          @DL2982F 20530029
00C1C0 4180 E352            08638 16259+         LA    R8,PGQU .         GET BEGIN OF PGQU           @DL2982F 20530529
00C1C4 4B80 E496            0877C 16260+         SH    R8,H4 .           INITIAL VALUE FOR LOOP      @DL2982F 20531029
00C1C8 5890 E48A            08770 16261+         L     R9,AEOPGQU .      GET CURRENT END OF PGQU     @DL2982F 20531529
00C1CC 4188 0004            00004 16262+TERMLOOP LA    R8,D4(R8) .       POINT TO NEXT ENTRY         @DL2982F 20531629
00C1D0 1998                       16263+         CR    R9,R8 .           ANY MORE ENTRY ?            @DL2982F 20532029
00C1D2 47D0 D4D4      0C1EA       16264+         BNH   TERMFIN .         NO, RETURN                  @DL2982F 20532529
00C1D6 9506 8003      00003       16265+         CLI   D3(R8),PGIN .     BELONGS ENTRY TO PAGEIN     @DL2982F 20533029
00C1DA 4770 D4B6      0C1CC       16266+         BNE   TERMLOOP .        NO, CONTINUE SEARCH         @DL2982F 20533529
00C1DE 4560 EB8A            08E70 16267+         BAL   R6,DELENTR .      YES, DELETE ENTRY           @DL2982F 20534029
00C1E2 5890 E49E            08784 16268+         L     R9,BSEADRS .      GET 3RD BASE REG FOR PMGR   @DL2982F 20534529
                            0A2E6 16269+         USING PMGRADR+X'2000',R9 .                          @DL2982F 20535029
00C1E6 9601 9A15      0ACFB       16270+         OI    RTSW,RTDQU .      SET RETURN IND.             @DL2982F 20535529
                                  16271+         DROP  R9 .                                          @DL2982F 20536029
00C1EA 986A D512            0C228 16272+TERMFIN LM    R6,RA,TERMSAVE .  RELOAD REGISTERS            @DL2982F 20536529
00C1EE 58D0 E49E            08784 16273+         L     RD,BSEADRS .      LOAD 3RD BASE REG FOR PMGR  @DL2982F 20537029
00C1F2 07F8                       16274+         BR    R8 .              RETURN                      @DL2982F 20537529


                                  16276+*        THIS ROUTINE DELETES ALL PAGEIN REQUESTS FROM THE     @DL2982F 20542029
                                  16277+*        PAGETAB. THE ROUTINE IS ENTERED IF THE LOAD-LEVELLER  @DL2982F 20544029
                                  16278+*        WAS ACTIVE IN THE SYSTEM.                             @DL2982F 20546029

                            00000 16280+         USING PGTABADR,R8                                   @DL2982F 20550029
00C1F4 4180 D532            0C248 16281+CLEARTAB LA    R8,PAGETAB .      POINT TO PAGETAB            @DL2982F 20552029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C1F8 1B55                      16282+         SR    R5,R5 .                                          @DL2982F 20554029
00C1FA 9604 8004      00004      16283+CLEARCNT OI    PGTBIND,TERMLL .   INDICATE TERM IN PROCESS      @DL2982F 20556029
00C1FE BF57 8005            00005 16284+         ICM   R5,M7,PGTECBP .    GET POINTER TO ECB            @DL2982F 20558029
00C202 4780 D502      0C218      16285+         BZ    CLEARDEL .         NO ECB PRESENT                @DL2982F 20560029
00C206 9684 5002      00002      16286+         OI    D2(R5),TRABIT+TERMLL POST ECB                    @DL2982F 20560529
00C20A 1BAA                      16287+         SR    RA,RA .            POINT                         @DL2982F 20561029
00C20C 43A0 8000            00000 16288+         IC    RA,PGTBTIK .       TO                            @DL2982F 20561529
00C210 4AA0 06AA            006AA 16289+         AH    RA,YPIBTAB .       REQUESTOR'S PIB               @DL2982F 20562029
                            00000 16290+         USING PIBADR,RA                                        @DL2982F 20562529
00C214 9601 A000      00000      16291+         OI    PIBFLG,IOCMPL .    UNWAIT REQUESTOR              @DL2982F 20563029
00C218 4590 D38A            0C0A0 16292+CLEARDEL BAL   R9,DELETENT .    DELETE PAGETAB ENTRY          @DL2982F 20564029
00C21C 1978                      16293+         CR    R7,R8 .            PAGETAB EMPTY                 @DL2982F 20566029
00C21E 4720 D4E4      0C1FA      16294+         BH    CLEARCNT .         NO, CONTINUE                  @DL2982F 20568029
00C222 47F0 D37E      0C094      16295+         B     GATEOP .           YES, OPEN GATE AND            @DL2982F 20570029
                                 16296+*                                 RETURN TO DISPATCHER          @DL2982F 20572029
00C228                           16297+TERMSAVE DS    5F .               SAVEAREA                      @DL2982F 20574029
                            00000 16298+         USING SVEARA,R8 .                                      @DL2982F 20590029
                            00000 16299+         USING PIBADR,RA .                                      @DL2982F 20592029


00C23C 0000C248                  16301+AEOPGTAB DC    A(PAGETAB) .       ADDR OF 1ST FREE PAGETAB-ENTR@DL2982F 20596029
00C240 0000C270                  16302+PGTABEND DC    A(EPAGETAB) .      END ADDR OF PAGETAB           @DL2982F 20600029
00C244 0100                      16303+CON256   DC    H'256' .                                         @DL2982F 20604029


                                 16305+*                                                               20700029
                                 16306+*        RESERVE STOARAGE FOR THE PAGE-TAB                     @DL2982P 20750029
00C248                           16307+         DS    0D                 FORCE BOUNDARY                @DL2982P 20800029
                          0C248  16308+PAGETAB  EQU   *                                                @DL2982P 20850029
00C248 0000000000000000          16309+         DC    5D'0'        .     PAGETAB-ENTRIES               @DL2982P 20900029
00C270 0000000000000000          16310+EPAGETAB DC    D'0' .             END OF PAGE-TAB               @DL2982F 20950029
                                 16311+         DROP  RE,RF                                            @DL2982F 20952029
                            00000 16312+         USING SYSS00,R0,RB       RESET STAND SYSTEM BASE      @D34RDFG 20954034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 16314+* SUPERVISOR - MCRAS - 5745-SC-SUP - REL. 34.1                @DY20278 00386634
                                 16315+*--------------------------------------------------------------------* 00630025
                                 16316+*       R E S I D E N T  M A C H I N E  C H E C K  H A N D L E R  * 00720025
                                 16317+*                                                                    * 00810025
                                 16318+*                                                                    * 00860034
                                 16319+*                                                                    * 00990025
                                 16320+* FUNCTION                                                          * 01080025
                                 16321+*    THE FUNCTION OF THIS ROUTINE IS TO DETERMINE THE SEVERITY OF A  * 01170025
                                 16322+*    MACHINE CHECK INTERRUPTION AND SCHEDULE THE PROPER FUNCTIONS.   * 01260025
                                 16323+*    WHEN A MACHINE CHECK OCCURS ALL MACHINE CHECKS ARE MASKED OFF BY * 01350025
                                 16324+*    BIT 13 OF THE MACHINE CHECK NEW PSW BEING OFF.  AT ENTRY TO THIS * 01440025
                                 16325+*    ROUTINE CONTROL REGISTER 14 IS LOADED WITH A CODE THAT WILL MASK * 01530025
                                 16326+*    ALL SOFT MACHINE CHECKS DURING MACHINE CHECK PROCESSING.  AFTER  * 01620025
                                 16327+*    THE SEVERITY OF THE ERROR IS DETERMINED HARD MACHINE CHECKS WILL * 01710025
                                 16328+*    BE ALLOWED IF THE ERROR IS NOT CLASS1. THIS IS DONE BY LOADING A * 01800025
                                 16329+*    PSW WITH BIT 13 ON. THE ERROR WILL FALL INTO 1 OF 4 CLASSES.     * 01890025
                                 16330+*    CLASS1                                                          * 01980025
                                 16331+*    SYSTEM DAMAGE BIT ON IN THE MCIC                                * 02070025
                                 16332+*    THE AMWP FIELD OF THE MACHINE CHECK OLD PSW IS INVALID          * 02160025
                                 16333+*    PROCESSING DAMAGE OCCURRED IN PRIVILEGED CODE.                  * 02250025
                                 16334+*    CLASS2                                                          * 02340025
                                 16335+*    PROCESSING DAMAGE OCCURRED IN NON-PRIVILEGED CODE.              * 02430025
                                 16336+*    NON-PRIVILEGED CODE WAS INTERRUPTED AND THE MACHINE CHECK OLD   * 02520025
                                 16337+*    PSW IS NOT COMPLETELY VALID AS STORED.                          * 02610025
                                 16338+*    CLASS3                                                          * 02700025
                                 16339+*    RECOVERY REPORT(SOFT MACHINE CHECK) OCCURRED IN PRIVILEGED CODE * 02790025
                                 16340+*    CLASS4                                                          * 02880025
                                 16341+*    RECOVERY REPORT(SOFT MACHINE CHECK) IN NON-PRIVILEGED CODE      * 02970025
                                 16342+*                                                                    * 03060025
                                 16343+*    THE ACTIONS SCHEDULED FOR EACH CLASS OF ERROR IS LISTED IN THE  * 03150026
                                 16344+*    ACTION TABLE BELOW.  IF A TASK IS TO BE CANCELLED, THE ERROR    * 03200026
                                 16345+*    CODE IS PLACED IN THE PIB BEFORE THE EXIT IS TAKEN.             * 03210026
                                 16346+*                                                                    * 03240025
                                 16347+*    * * * * * * * *   A C T I O N    T A B L E   * * * * * * * *  * 03330025
                                 16348+* CLASS   EXIT TAKEN    ACTIONS SCHEDULED AND/OR PERFORMED           * 03420025
                                 16349+*    1    EMGEX9        RECORDING,HARD WAIT MESSAGE,TERMINATE SYSTEM * 03510025
                                 16350+*    2    EXIT          RECORDING, CANCEL THE DAMAGED TASK           * 03600028
                                 16351+*    3    OLD PSW       RECORDING,  RETURN TO INTERRUPTED CODE       * 03690025
                                 16352+*    4    EXIT          RECORDING, TASK SELECTION                    * 03780028
                                 16353+*                                                                    * 03870025
                                 16354+* ENTRY POINTS                                                      * 03960025
                                 16355+*         MACHEK        ENTERED VIA MACHINE CHECK NEW PSW            * 04050025
                                 16356+*         EMGEX0        IRRECOVERABLE CHANNEL CHECK ON PAGING        * 04100028
                                 16357+*                       DEVICE OR CHANNEL                            * 04110028
                                 16358+*         EMGEX1        CHANNEL ADDRESS NOT VALID ON CHANNEL CHECK   * 04140025
                                 16359+*         EMGEX4        2 CHAN DAMAGED OR RTA I/O ACT.               * 04410028
                                 16360+*         EMGEX5        ERPIB QUEUE EXHAUSTED                        * 04500025
                                 16361+*         EMGEX6        NO ECSW STORED                               * 04590026
                                 16362+*         EMGEX7        CC ERROR ON LOG WITH RAS MSG SCHEDULED       * 04680025
                                 16363+*         EMGEX8        UNRECOVERABLE CHANNEL CHECK ON FETCH         * 04770025
                                 16364+* INPUT                                                            * 04950025
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                        16365+*    THE MACHINE CHECK OLD PSW                                        * 05040025
                        16366+*    INDEPENDENT LOG OUT AREA                                         * 05130025
                        16367+* OUTPUT                                                              * 05220025
                        16368+*    LOWCORE MESSAGE                                                  * 05310025
                        16369+* EXTERNAL REFERENCES                                                * 05400025
                        16370+*          LABEL    NAME AND LOCATION                                 * 05490025
                        16371+*                                                                     * 05580025
                        16372+*          MCIC     MACHINE CHECK INTERRUPT CODE IN LOG OUT AREA      * 05670025
                        16373+*          VALID1   MACHINE CHECK VALIDITY CODES IN LOG OUT AREA     * 05760028
                        16374+*          VALID2   MACHINE CHECK VALIDITY CODES IN LOG OUT AREA     * 05770034
                        16375+*          STORERR  STORAGE ERROR CODES IN LOG OUT AREA              * 05780034
                        16376+*          GRSAVE   GENERAL REGISTER SAVE AREA   IN LOG OUT AREA     * 05850025
                        16377+*          MCOLDP   MACHINE CHECK OLD PSW                            * 05940025
                        16378+*          MCFLAGS  MACHINE CHECK FLAGS IN THE RAS LINKAGE AREA      * 06030025
                        16379+*          RASFLAGS RAS FLAGS IN THE RAS LINKAGE AREA                * 06120025
                        16380+*          RASPGQU  ADDRESS OF PAGE REQUEST QUEUE IN RAS LINKAGE AREA * 06140034
                        16381+*          RASBASE  BASE ADDRESS FOR RAS IN RAS LINKAGE AREA         * 06210025
                        16382+*          LD00SLOT LOAD LIST ENTRY OF $$RAST00 IN RAS TABLE         * 06390025
                        16383+*          PFGENENT SECONDARY ENTRY TO 'GENENT' ROUTINE IN SUPERVISOR * 06480034
                        16384+*          HLDPSW   ADDRESS OF INTERRUPT PSW IN SUPERVISOR           * 06570025
                        16385+*          ERR1F    CANCEL ROUTINE IN SUPERVISOR                     * 06840034
                        16386+*          EXIT     TASK SELECTION ROUTINE IN SUPERVISOR             * 06930028
                        16387+*          ERA      ENTRY REGISTER SAVE AREA IN SUPERRVISOR          * 07020025
                        16388+*          SVEARA   SAVE AREA ADDRESS FOR TASK                       * 07110025
                        16389+*          PIK      TASK KEY IN COMMUNICATIONS REGION                * 07200028
                        16390+*          TIK      TASK KEY IN COMMUNICATIONS REGION                * 07250028
                        16391+*          SELECT   SYSTEM TASK SELECTION CONTROL FIELD              * 07250134
                        16392+*          RASPTR   DISPLACEMENT OF RAS TASK BLOCK                   * 07250234
                        16393+*          ASYSBLK0 BASE ADDRESS OF SYSTEM TASK BLOCKS               * 07250334
                        16394+*          SYSPIBFL ADDRESS OF RASFLG IN RASBLOCK                    * 07250434
                        16395+*          SPIBFLG  = RASFLG PIBFLAG OF RAS SYSTEM TASK              * 07250534
                        16396+*          RID      ROUTINE IDENTIFIER IN SUPERVISOR                 * 07250634
                        16397+*          YPIBTAB  BASE ADDRESS OF PIBTAB IN COMRG                  * 07250734
                        16398+*          CHECKR0  EMERGENCY CALL FOR $$RAST00                      * 07250834
                        16399+*          LOWCORE  MAIN STORAGE LOCATIONS 0-1                       * 07250934
                        16400+*                                                                    * 07470025
                        16401+* EXITS,NORMAL                                                       * 07560025
                        16402+*          EXIT     EXIT TO TASK SELECTION VIA R6                    * 07650034
                        16403+*          MCOLDP   RESUME PRIVILEGED CODE                           * 07740025
                        16404+*                                                                    * 07830025
                        16405+* EXITS, ERROR                                                       * 07920025
                        16406+*          CHECKR0  EMERGENCY CALL FOR $$RAST00                      * 07940034
                        16407+*                                                                    * 08190025
                        16408+* TABLES/WORK AREAS,NOT APPLICABLE                                   * 08280025
                        16409+*                                                                    * 08370034
                        16410+* ATTRIBUTES                                                         * 08460025
                        16411+*    REENTRANT,DISABLED,PRIVILEGED,RESIDENT                          * 08550025
                        16412+*                                                                    * 08640025
                        16413+* CHARACTER CODE DEPENDENCY  NOT APPLICABLE                         * 08730025
                        16414+*                                                                    * 08820025
                        16415+* NOTES   NOT APPLICABLE                                            * 08910025
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 16416+*                                                                * 09000025
                                 16417+*------------------------------------------------------------------* 09090025
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C278                           16419+MACHEK   DS    0H                                                        09270026
00C278 05F0                      16420+         BALR  RF,R0 .            ESTABLISH ADDRESSABILITY               09360028
                         0C27A   16421+         USING *,RF                                                      09540025
                         00000   16422+         USING CCBADR,R1 .         CCB POINTER                      EM 09542228
                         00000   16423+         USING PUBADR,R3 .         PUB POINTER                      EM 09542428
                         00000   16424+         USING CHQADR,R4 .         CHANNEL QUEUE POINTER            EM 09542628
                                 16425+         DROP  RB .                DROP STANDARD SYSTEM BASE   @D34RDFG 09543034
                         0C27A   16426+MCSTRT   EQU   *                                                         09630025

00C27A B7EE F146                 0C3C0 16428+         LCTL  RE,RE,CR14MSK .    LOAD CONTROL REGISTER 14         HL 09770028
                                 16429+*                                 TO MASK SOFT MACHINE CHECKS      HL 09900028

00C27E 9180 00E8      000E8      16431+         TM    MCIC,SDBIT .       IS THE SYSTEM DAMAGED                  10080028
00C282 4710 F110      0C38A      16432+         BO    EMGEX9 .           YES  TERMINATE THE SYSTEM              10170028

00C286 9108 00EA      000EA      16434+         TM    VALID1,WPBIT .     IS THE AMWP FIELD VALID          HL 10350028
00C28A 47E0 F110      0C38A      16435+         BNO   EMGEX9 .           NO  TERMINATE THE SYSTEM               10440028

00C28E 9140 00E8      000E8      16437+         TM    MCIC,PDBIT .       HAS INSTRUCTION DAMAGE OCCURRED        10620028
00C292 4710 F030      0C2AA      16438+         BO    MCPDCOND .         YES  CHECK FOR PRIVILEGED CODE         10710028
00C296 9104 00E8      000E8      16439+         TM    MCIC,EDBIT .       EXTERNAL DAMAGE OCCURRED     @DL2942W  10760034
00C29A 4710 F110      0C38A      16440+         BO    EMGEX9 .           YES TERMINATE SYSYTEM        @DL2942W  10770034
00C29E 9107 00EA      000EA      16441+         TM    VALID1,MSBIT+PMBIT+IABIT IS THE MACHINE CHECK OLD VALID  10800028
00C2A2 4710 F04E      0C2C8      16442+         BO    MCSOFT .           YES  GO TO SOFT CHECK ROUTINE          10890028
00C2A6 47F0 F03A      0C2B4      16443+         B     NOVAPSW      NO VALID PSW TO TEST FOR SVA ADDR  @DY14906 10930034

                         0C2AA   16445+MCPDCOND EQU   *                                                         11070025
00C2AA D502 07ED 0035 007ED 00035 16446+         CLC   ASVA+1(L3),MCOLDPSW+5 DID DAMAGE OCCUR IN SVA   @DY14906 11090034
00C2B0 47D0 F110      0C38A      16447+         BNH   EMGEX9              YES , TERMINATE SYSTEM       @DY14906 11100034
                         0C2B4   16448+NOVAPSW  EQU   *                                                 @DY14906 11115034
00C2B4 9103 0031      00031      16449+         TM    MCOLDP+1,WAITBIT+NPBIT FROM ALLBOUND               @DM01267 11120028
00C2B8 4710 F110      0C38A      16450+         BO    EMGEX9 .           YES, TERMINATE SYSTEM         @DM01267 11130028
00C2BC 9101 0031      00031      16451+         TM    MCOLDP+1,NPBIT .   PROBLEM PROGRAM DAMAGED               11160028
00C2C0 47E0 F110      0C38A      16452+         BNO   EMGEX9 .           NO  TERMINATE THE SYSTEM               11250028

                                 16454+*-------------------------------------------------------------------* 11430025
                                 16455+*   A PROBLEM PROGRAM OR A LOGICAL TRANSIENT HAS BEEN DAMAGED        * 11520025
                                 16456+*-------------------------------------------------------------------* 11610025
00C2C4 9604 081A      0081A      16457+         OI    MCFLAGS,MCHARD .   INDICATE A HARD MACHINE CHECK          11700028

                         0C2C8   16459+MCSOFT   EQU   *                                                         11880025
00C2C8 8200 F13E      0C3B8      16460+         LPSW  SOFTPSW .          ALLOW HARD MACHINE CHECKS AGAIN         11970028

                         0C2CC   16462+MCSCHDL EQU    *                                                        12150025
00C2CC D603 F666 F666 0C8E0 0C8E0 16463+         OC    LD00SLOT,LD00SLOT  ADDRESS AVAILABLE            @DY16022 12200034
00C2D2 4780 F110      0C38A      16464+         BZ    EMGEX9             NO TERMINATE SYSTEM           @DY16022 12250034
00C2D6 96C0 F666      0C8E0      16465+         OI    LD00SLOT,ACTLOAD+MCACT  SET BITS FOR $$RAST00             12330025
00C2DA D201 F6DE 067E 0C958 0067E 16466+         MVC   MCPIK(L2),PIK .    SAVE KEY FOR $$RAST01              435 12780028
00C2E0 D201 F6E0 0752 0C95A 00752 16467+         MVC   MCTIK(L2),TIK .    SAVE KEY FOR $$RAST09               JW 12880028
00C2E6 9180 0819      00819      16468+         TM    RASFLAGS,RASACT .  IS RAS ALREADY ACTIVE         @DM02788 12940028
00C2EA 4710 F09A      0C314      16469+         BO    MCLPSW .           YES,CONTINUE.                 @DM02788 12950028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   16470+*        RAS WILL GET CONTROL BACK IF RAS I/O IS COMPLETED     @DM02788 12952028
00C2EE 9680 0819      00819        16471+         OI    RASFLAGS,RASACT .  BIT FOR RAS COMPL. TEST      @DM02788 12954028
00C2F2 9101 0031      00031        16472+         TM    MCOLDP+1,NPBIT .   DID CHECK OCCUR IN PROBLEM CODE       12960028
00C2F6 4710 F0A2      0C31C        16473+         BO    MCTASK .           YES  TASK HAS BEEN INTERRUPTED         13050028
00C2FA 9503 073D      0073D        16474+         CLI   SELECT,RAS .       IS RAS ACTIVE                 @DS28005 13100028
00C2FE 4780 F09A      0C314        16475+         BE    MCLPSW .           YES,CONTINUE                  @DS28005 13132028
00C302 1B99                        16476+         SR    R9,R9 .            CLEAR REG.                    @DS28005 13134028
00C304 4390 079B            0079B  16477+         IC    R9,RASPTR .        GET INDEX TO RAS              @DS28005 13136028
00C308 5A90 0790            00790  16478+         A     R9,ASYSBLK0 .      GET RAS BLOCK                 @DS28005 13138028
                            00000  16479+         USING SYSBLKS,R9 .       DECLARE BASE FOR IT           @DS28005 13138428
00C30C 4890 9000            00000  16480+         LH    R9,SYSPIBFL .      GET PIB OF RAS                @DS28005 13138828
                            00000  16481+         USING SPIBADR,R9 .       DECLARE BASE FOR IT           @DS28005 13139228
00C310 9286 9000      00000        16482+         MVI   SPIBFLG,INITRAS    ACTIVATE RAS                  @DS28005 13139628
00C314 980F 0180            00180  16483+MCLPSW   LM    R0,RF,GRSAVE .     RESTORE GENERAL REGS                   13140028
00C318 8200 0030      00030        16484+         LPSW  MCOLDP .           RESUME SUPERVISOR FUNCTION             13230028

                            0C31C  16486+MCTASK   EQU   * .                                                 @DM01650 13500028
00C31C 9500 087F      0087F        16487+         CLI   RID+D1,SYSTEMID .  IS SYSTEM ALLBOUND              @DS28005 13550028
00C320 4780 F0C2      0C33C        16488+         BE    MCTASK1 .          YES                           @DS28005 13600028
00C324 9230 0BFD      00BFD        16489+         MVI   HLDPSW,MCOLDPSW .  INDICATE MC INTERRUPT               435 13680028
00C328 58F0 01BC            001BC  16490+         L     RF,GRSAVE+D60 .    REST. REG. 15 VALUE           @DM01650 13685028
00C32C 909E 0850            00850  16491+         STM   R9,RE,ERA .        STORE ENTRY REGISTERS               HL 13730028
00C330 48A0 0752            00752  16492+         LH    RA,TIK .           GET THE TIK                   @DS28005 13762028
00C334 4AA0 06AA            006AA  16493+         AH    RA,YPIBTAB .       POINTER TO PIB                @DS28005 13766028
00C338 4590 0BE0            00BE0  16494+         BAL   R9,PFGENENT .      INITIALIZE ENTRY              @DS28005 13770028
                            0C33C  16495+MCTASK1  EQU   *                                                 @DS28005 14034028
00C33C 58F0 0820            00820  16496+         L     RF,RASBASE .       RESTORE BASE                  @DM01650 14035028
00C340 1B99                        16497+         SR    R9,R9 .            CLEAR REG.                    @DS28005 14036028
00C342 4390 079B            0079B  16498+         IC    R9,RASPTR .        GET POINTER TO RAS            @DS28005 14038028
00C346 5A90 0790            00790  16499+         A     R9,ASYSBLK0 .      GET RAS BLOCK                 @DS28005 14038128
                            00000  16500+         USING SYSBLKS,R9 .       DECLARE BASE FOR IT           @DS28005 14038228
00C34A 4890 9000            00000  16501+         LH    R9,SYSPIBFL .      GET PIB OF RAS                @DS28005 14038328
                            00000  16502+         USING SPIBADR,R9 .       DECLARE BASE FOR IT           @DS28005 14038528
00C34E 9286 9000      00000        16503+         MVI   SPIBFLG,INITRAS .  ACTIVATE RAS                  @DS28005 14038928
                                   16504+         DROP  R9                                              @D347DAZ 14039934

00C352 91A0 00EA      000EA        16506+         TM    STORERR,SEBIT+PEBIT   STOR. OR PROT. ERROR             JW 14061628
00C356 4780 F0F2      0C36C        16507+         BZ    MCTSKDMG .         NO,FLAGGING NOT REQ.                  JW 14066928
00C35A 9180 00EB      000EB        16508+         TM    VALID2,FABIT .     IS FAIL. STOR. ADDR. VALID    @DS28005 14068928
00C35E 4780 F110      0C38A        16509+         BZ    EMGEX9 .           NO, GO TERMINATE SYSTEM       @D34DDAZ 14070934
00C362 5890 082C            0082C  16510+         L     R9,RASPGQU .       GET ADDR. OF PAGE QUEUE       @DS28005 14072128
00C366 9101 9000      00000        16511+         TM    D0(R9),GREALID .   STOR. ERROR ON GETREAL        @DS28005 14076928
00C36A 0716                        16512+         BCR   O,R6 .             YES,DO NOT CANCEL             @DS28005 14078928
00C36C 9104 081A      0081A        16513+MCTSKDMG TM    MCFLAGS,MCHARD .   IS THE TASK DAMAGED          @DS28005 14125228
00C370 07E6                        16514+         BCR   NO,R6 .            NO  GO TO TASK SELECTION              HL 14130028
00C372 47F0 09E6      009E6        16515+         B     ERR1F .            GO CANCEL THE TASK                      14360028

00C376 4BF0 F646            0C8C0  16517+EMGEX0   SH    RF,RASHW8 CODE=J . IRRECOV. CHANNEL CHECK ON             JW 15350028
                                   16518+*                                 PAGING OPERATION                      JW 15400028
00C37A 06F0                        16519+EMGEX1   BCTR  RF,R0 CODE=I .     CHANNEL ADDRESS IS INVALID              15570028
00C37C 06F0                        16520+         BCTR  RF,R0 CODE=H .     RESERVED                      @D34DDAZ 15660034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C37E 06F0                      16521+         BCTR  RF,R0 CODE=G .     RESERVED                      @D34DDAZ 15710034
00C380 06F0                      16522+EMGEX4   BCTR  RF,R0 CODE=F .     2 CHAN DAMAGED OR RTA I/O ACT.           15840028
00C382 06F0                      16523+EMGEX5   BCTR  RF,R0 CODE=E .     ERPIB QUEUE HAS BEEN EXHAUSTED           15930028
00C384 06F0                      16524+EMGEX6   BCTR  RF,R0 CODE=D .     NO ECSW STORED                           16020028
00C386 06F0                      16525+EMGEX7   BCTR  RF,R0 CODE=C .     CHANNEL CHECK ON LOG WITH RAS MSG        16110028
00C388 06F0                      16526+EMGEX8   BCTR  RF,R0 CODE=B .     UNRECOVERABLE CHANNEL CHECK ON FETCH     16200028
                            0C38A 16527+EMGEX9   EQU   * .   CODE=A      UNRECOVERABLE MACHINE CHECK              16290028

00C38A 5890 0820            00820 16529+         L     R9,RASBASE .      GET BASE ADDRESS                         16380028
00C38E 1B9F                       16530+         SR    R9,RF .           GET NUMBER OF REDUCTIONS                 16470028
00C390 1AF9                       16531+         AR    RF,R9 .           RESTORE BASE VALUE                       16560028
00C392 4199 00C1            000C1 16532+         LA    R9,EMGCODE(R9) .  UPDATE TO PROPER CODE                    16650028
00C396 4290 0000            00000 16533+         STC   R9,LOWCORE .      SET WAIT CODE                       HL   16740028
00C39A 92E2 0001      00001       16534+         MVI   LOWCORE+1,SEREPCDE SET THE SERAP CODE                435  16830028
00C39E 9608 F666      0C8E0       16535+         OI    LD00SLOT,EMGEXIT . SET EMERGENCY EXIT BIT                16920028
                                  16536+*        THE INFORMATION FOR SEREP IS STORED                    @DA01080 16930029
                                  16537+*             IN THE MACHINE CHECK NEW PSW                      @DA01080 16940029
                                  16538+*        THE CODE HAS THE FOLLOWING MEANING :                   @DA01080 16950029
                                  16539+*        00 INDICATES A TERMINATING MACHINE CHECK               @DA01080 16960029
                                  16540+*        0F INDICATES A TERMINATING CHANNEL CHECK               @DA01080 16970029
                                  16541+*                                                               @DA01080 16980029
00C3A2 9200 0073      00073       16542+         MVI   MCNPSW+3,X'00' .       INDICATE MACHINE CHECK    @DA01080 16990029
00C3A6 95C1 0000      00000       16543+         CLI   LOWCORE,C'A' .         IS IT MACHINE CHECK       @DA01080 17000029
00C3AA 47D0 F14E      0C3C8       16544+         BNH   CHECKR0 .              YES                       @DA01080 17002029
00C3AE 960F 0073      00073       16545+         OI    MCNPSW+3,X'0F' .       NO, CHANNEL CHECK         @DA01080 17004029
00C3B2 47F0 F14E      0C3C8       16546+         B     CHECKR0 .              GO CHECK IF $$RAST00 IS IN RTA          17010028

00C3B8                            16548+SOFTPSW DS     0D                                                       17190025
00C3B8 040C0000                   16549+         DC    X'040C0000' .      ALLOW HARD MACHINE CHECKS         HL   17280028
00C3BC 0000C2CC                   16550+         DC    A(MCSCHDL) .       ENTER MACHINE CHECK SCHEDULING         17370028
00C3C0 C0000000                   16551+CR14MSK  DC    X'C0000000' .      MASK TO PREVENT SOFT MACHINE CHECKS    17460028
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 16554+*-------------------------------------------------------------------* 17730025
                                 16555+*       R A S   M O N I T O R   R O U T I N E                       * 17820025
                                 16556+*                                                                   * 17910025
                                 16557+*                                                                   * 18090025
                                 16558+* FUNCTION                                                          * 18180025
                                 16559+*    SCHEDULE I/O REQUESTS FOR THE RTA MODULES                      * 18270025
                                 16560+*    FETCH MODULES INTO THE RTA                                     * 18360025
                                 16561+*                                                                   * 18450025
                                 16562+*    THE RAS MONITOR ACTS AS AN INTERFACE BETWEEN THE RTA AND THE   * 18540025
                                 16563+*   SUPERVISOR.  IT WILL SCHEDULE I/O REQUESTS FROM THE RTA AND     * 18630025
                                 16564+*   RETURN CONTROL TO THE RTA WHEN THE I/O REQUEST IS COMPLETE.     * 18720025
                                 16565+*                                                                   * 18810025
                                 16566+*    WHEN AN RTA MODULE COMPLETES IT'S FUNCTION OR REQUIRES THE     * 18900025
                                 16567+*    SERVICES OF ANOTHER RTA MODULE, THIS ROUTINE WILL FETCH THE    * 18990025
                                 16568+*    MODULE INTO THE RTA.  TO PERFORM THE FETCH, THE ENTRY IN THE   * 19080025
                                 16569+*    LOAD LIST FOR THE MODULE TO BE FETCHED WILL BE EXPANDED INTO   * 19170025
                                 16570+*    AN ABSOLUTE SEEK ADDRESS AND THE MODULE IS READ INTO THE RTA.  * 19260025
                                 16571+*                                                                   * 19350025
                                 16572+*    THIS ROUTINE WILL GAIN CONTROL FROM THE SUPERVISOR AT EXIT     * 19440025
                                 16573+*    TIME WHEN THE RAS ACTIVE BIT IS ON.  IF THE I/O REQUEST HAS    * 19530025
                                 16574+*    COMPLETED, CONTROL IS RETURNED TO THE RTA MODULE.  IF THE I/O  * 19620025
                                 16575+*    REQUEST HAS NOT COMPLETED, THE SUPERVISOR REGAINS CONTROL.     * 19710025
                                 16576+*                                                                   * 19800025
                                 16577+*    IN AN EMERGENCY SITUATION THE NORMAL I/O REQUEST IS BYPASSED AND * 19890025
                                 16578+*    THE ERROR SIO ROUTINE IN THE SUPERVISOR IS USED TO PERFORM THE  * 19980025
                                 16579+*    I/O REQUESTS FOR THE RTA MODULES.                              * 20070025
                                 16580+*                                                                   * 20160025
                                 16581+* ENTRY POINTS                                                     * 20250025
                                 16582+*         RASUPR   FROM SUPERVISOR EXIT ROUTINES WHEN RAS IS ACTIVE * 20340025
                                 16583+*         CHECKR0  FROM EMERGENCY EXIT ROUTINES                     * 20360034
                                 16584+*         CALLRTA  FROM RTA MODULES TO PERFORM FETCH OF NEXT MODULE * 20610025
                                 16585+*         RASIOR   FROM RTA MODULES TO REQUEST I/O                  * 20700025
                                 16586+*                                                                   * 20790025
                                 16587+* INPUT                                                           * 20880025
                                 16588+*    REGISTER 3    INDEX TO LOAD LIST ENTRY OF MODULE TO BE FETCHED * 20970025
                                 16589+*    REGISTER 7    RETURN ADDRESS FOR THE RTA MODULE MAKING REQUEST * 21060025
                                 16590+*    REGISTER 8    ADDRESS OF THE RTAIOB OF MODULE MAKING REQUEST   * 21150025
                                 16591+*                 (REGISTERS 7 AND 8 ARE TAKEN FROM TRANSAV)        * 21170034
                                 16592+*                                                                   * 21240025
                                 16593+* OUTPUT  NOT APPLICABLE                                           * 21330025
                                 16594+*                                                                   * 21420025
                                 16595+* EXTERNAL REFERENCES                                             * 21510025
                                 16596+*           LABEL    NAME AND LOCATION                             * 21600025
                                 16597+*         SYSREGS  SAVE AREA FOR SUPERVISOR REGISTERS IN RAS TABLE * 21690028
                                 16598+*         TRANSAV  SAVE AREA FOR RTA REGISTERS IN RAS TABLE        * 21710034
                                 16599+*         RASFLAGS RAS FLAGS IN THE RAS LINKAGE AREA               * 21780025
                                 16600+*         RTAOWN   OWNERSHIP BYTE OF RTA IN RAS TABLE              * 21870025
                                 16601+*         LD00SLOT LOAD LIST ENTRY OF $$RAST00 IN RAS TABLE        * 21960025
                                 16602+*         RTARETRN RETURN TO RTA MODULE VIA RTA FUNCTION           * 22050034
                                 16603+*         RTA      RAS TRANSIENT AREA                              * 22140025
                                 16604+*         RASCCWS  RAS FETCH CCW CHAIN IN THE RAS TABLE            * 22230025
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 16605+*         RASTTR   LOAD LIST IN THE RAS TABLE                          * 22320025
                                 16606+*         RASEEK   DATA ADDRESS FOR SEEK CCW IN RAS TABLE              * 22410025
                                 16607+*         CAW      CHANNEL ADDRESS WORD IN LOW CORE                    * 22500025
                                 16608+*         RASRES   DEVICE ADDRESS OF SYSRES IN THE RAS TABLE           * 22590025
                                 16609+*         RASSIO   ERROR SIO ROUTINE IN RTA FUNCTIONS                  * 22950034
                                 16610+*         SOFTPSW  PSW IN MACHINE CHECK HANDLER                        * 23130025
                                 16611+*         RTAID    ID OF I/O REQUEST FOR RTA MODULE IN RAS TABLE       * 23220025
                                 16612+*         RASCCB   RAS CCB IN THE RAS TABLE                            * 23240034
                                 16613+*         RASTIB   RAS CCB TRAFFIC INFORMATION                         * 23260034
                                 16614+*         SYSFLAG3 SYSTEM FLAG BYTE 3 IN SUPERVISOR                    * 23268034
                                 16615+*         CONFIGR  MACHINE CONFIGURATION BYTE IN COMRG                 * 23276034
                                 16616+*         LCBYTE   LINKAGE CONTROL BYTE IN COMRG                       * 23284034
                                 16617+*         IONPSW   I/O NEW PSW (ONLY IF EMERGENCY EXIT)                * 23292034
                                 16618+*         SELECT   SYSTEM TASK SELECTION CONTROL FIELD                 * 23300034
                                 16619+*                                                                      * 23400025
                                 16620+* EXITS,NORMAL                                                        * 23490025
                                 16621+*         RTARETRN RETURN TO RTA MODULE                                * 23670034
                                 16622+*         RTA+10   INITIAL ENTRY TO RTA MODULE                         * 23850028
                                 16623+*                                                                      * 23940025
                                 16624+* EXITS,ERROR                                                         * 24030025
                                 16625+*         EMGEX8   UNRECOVERABLE ERROR ON RAS FETCH REQUEST            * 24120025
                                 16626+*         EMGHWT   HARD WAIT IF EMERGENCY I/O CAUSES IRREC. I/O ERROR  * 24140034
                                 16627+*                                                                      * 24210025
                                 16628+* TABLES/WORK AREAS,NOT APPLICABLE                                     * 24300025
                                 16629+*                                                                      * 24390025
                                 16630+* ATTRIBUTES                                                          * 24480025
                                 16631+*    REENTRANT,DISABLED,PRIVILEGED,RESIDENT                            * 24570025
                                 16632+*                                                                      * 24660025
                                 16633+* CHARACTER CODE DEPENDENCY  NOT APPLICABLE                           * 24750025
                                 16634+*                                                                      * 24840025
                                 16635+* NOTES                                                               * 24930025
                                 16636+*    THE RAS MONITOR IS ACTIVE ONLY AFTER A MACHINE CHECK OR A         * 25020025
                                 16637+*    CHANNEL CHECK.  IT REMAINS ACTIVE UNTIL ALL FUNCTIONS HAVE        * 25110025
                                 16638+*    BEEN COMPLETED BY THE RTA MODULES.                                * 25200025
                                 16639+*--------------------------------------------------------------------* 25290025
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0C3C4 16641+RASUPR   EQU   *                                                        25470025
00C3C4 900F F732           0C9AC 16642+         STM   R0,RF,SYSREGS .    SAVE REGISTERS FOR SUPERVISOR      HL 25560028
                           0C3C8 16643+CHECKR0  EQU   *                                                        25830025
00C3C8 95E9 F6DD      0C957      16644+         CLI   RTAOWN,RAST00 .    IS $$RAST00 IN THE RTA            435 25920028
00C3CC 4770 F15E      0C3D8      16645+         BNE   CALL0 .            IF NO GO CALL LOAD ZERO                26010028
                           0C3D0 16646+EMGENT   EQU   *                                                        26100025
00C3D0 41C0 F7FE           0CA78 16647+         LA    RC,RTA .           SET BASE FOR THE RTA                   26190028
00C3D4 47FC 000A      0000A      16648+         B     D10(RC) .          GO TO THE RTA MODULE              435 26280028
                           0C3D8 16649+CALL0    EQU   *                                                        27180025
00C3D8 1B33                      16650+         SR    R3,R3 .            ASK FOR $$RAST00                       27270028
00C3DA 9220 F772      0C9EC      16651+         MVI   LINKFLAG,RASLFTCH .INDICATE FETCH REQUEST              HL 27272528
                           0C3DE 16652+CALLRTA  EQU   *                                                        27360025
00C3DE 9205 F6EA      0C964      16653+         MVI   RTAID,RASFCHID .   SET UP FETCH ID                        27450028
00C3E2 4230 F6DD           0C957 16654+         STC   R3,RTAOWN .        SET NEW OWNER OF RTA                   27540028
00C3E6 9214 F6A8      0C922      16655+         MVI   RASTIB,ACCUNRIO+POSTDE SET WAIT FOR DEVEND+ACC ERRORS435 27720028
00C3EA 4570 F198           0C412 16656+         BAL   R7,RASFTCH .       GO FETCH LOAD                          27810028
00C3EE 9120 F6A8      0C922      16657+         TM    RASTIB,DISERR .    UNRECOVERABLE I/O ERROR                27900028
00C3F2 47E0 F156      0C3D0      16658+         BNO   EMGENT .           NO  GO TO THE RTA MODULE            HL 27990028
00C3F6 47F0 F10E      0C388      16659+         B     EMGEX8 .           TAKE THE EMERGENCY EXIT                28080028

                           0C3FA 16661+RASIOR   EQU   *                                                        28170025
00C3FA 9601 0819      00819      16662+         OI    RASFLAGS,RTAIOA .  SET RAS I/O ACTIVE                     28260025
00C3FE 94FB F6A8      0C922      16663+         NI    RASTIB,XFF-POSTDE  SET WAIT FOR CHANEND          @D34SDAZ 28261034
00C402 9878 F70E           0C988 16664+         LM    R7,R8,TRANSAV7 .   GET RETURN REGISTER & IOB POINTER 513 28263528
00C406 5818 0000           00000 16665+         L     R1,D0(R8) .        GET RTA CCW ADDRESS               435 28350028
00C40A 4828 0004           00004 16666+         LH    R2,D4(R8) .        GET RTA LUB                       435 28440028
00C40E 47F0 F250      0C4CA      16667+         B     RASIOE .           GO SCHEDULE I/O                        28530028

00C412 4110 083E           0083E 16669+RASFTCH  LA    R1,ZEROBYTE-L2 .   POINT TO DUMMY CCB                471 28670028
00C416 9640 073A      0073A      16670+         OI    SYSFLAG3,WAITRAS . TURN ON RAS IO DELAYED BIT          471 28680028
00C41A 9101 0684      00684      16671+         TM    CONFIGR,RMSBIT     IS RAS INITIALIZED           @DM11453 28690031
00C41E 4780 F1C2      0C43C      16672+         BZ    RASFTCH1 .         NO,SKIP REALLOC                    471 28700028
00C422 9102 0689      00689      16673+         TM    LCBYTE,FCHQ        TEST IF SCIL UPDATE IN PROG. @DM05998 28708030
00C426 4780 F1C2      0C43C      16674+         BZ    RASFTCH1 .         NO,CONTINUE                        471 28708428
00C42A 58B0 0844           00844 16675+         L     RB,HEX1000         LOAD RB FOR HARDWAIT CODE    @DY20278 28708534
00C42E 9108 F666      0C8E0      16676+         TM    LD00SLOT,EMGEXIT   EMERGENCY SITUATION          @DY20278 28708634
00C432 4710 0B04      00B04      16677+         BO    CILUPERR           HARD WAIT WITH CIL.UPDATE ERR@DY20278 28708734
00C436 0A07                      16678+         SVC   WAIT .             YES,WAIT UNTIL FINISHED            471 28708934
00C438 47F0 F198      0C412      16679+         B     RASFTCH            GO AND TEST CIL UPDATE AGAIN @DA08974 28709034

00C43C 94BF 073A      0073A      16681+RASFTCH1 NI    SYSFLAG3,XFF-WAITRAS .TURN OFF RAS SPECIAL WAIT BIT  471 28709728
00C440 4110 F6B6           0C930 16682+         LA    R1,RASCCWS .       GET ADDRESS OF CCWS                    28710028
00C444 8930 0002           00002 16683+         SLL   R3,L2 .            MULTIPLY BY 4                     435 28760028
00C448 4123 F666           0C8E0 16684+         LA    R2,RASTTR(R3) .    GET ADDRESS OF TTR TABLE               28800028
00C44C D200 F6DC 2003 0C956 00003 16685+         MVC   RASEEK+6(L1),D3(R2) PUT RECORD NUMBER IN SEEK FIELD  435 29070028
00C452 D200 F6DB 2002 0C955 00002 16686+         MVC   RASEEK+5(L1),D2(R2) PUT TRACK NUMBER IN SEEK FIELD   435 29160028
00C458 D200 F6D9 2001 0C953 00001 16687+         MVC   RASEEK+3(L1),D1(R2) PUT CYLINDER NUMBER IN SEEK FIELD435 29250028
00C45E 943F F6DB      0C955      16688+         NI    RASEEK+5,ZEROH2 .  TURN OFF C1-BITS IN H2-BYTE            29310028
00C462 1FCC                      16689+         SLR   RC,RC              CLEAR RC                     @D34DDAZ 29315034
00C464 43C2 0002           00002 16690+         IC    RC,D2(R2) .        GET BYTE WITH C1 BITS        @D34DDAZ 29320034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C468 88C0 0006            00006 16691+         SRL   RC,L6 .             SHIFT OUT H2 BITS            @D34DDAZ 29323034
00C46C 42C0 F6D8            0C952 16692+         STC   RC,RASEEK+2 .       STORE C1 INTO SEEK ADDRESS   @D34DDAZ 29326034
00C470 4120 0006            00006 16693+         LA    R2,SYSRES .         GET LUB NUMBER                     HL 29340028
00C474 9108 F666      0C8E0       16694+         TM    LD00SLOT,EMGEXIT .  EMERGENCY SITUATION                  29430028
00C478 47E0 F250      0C4CA       16695+         BNO   RASIOE .            NO  NORMAL CALL                      29520028

                                  16697+*-------------------------------------------------------------------* 29610025
                                  16698+*   THIS ROUTINE IS USED TO FETCH RTA MODULES IN EMERGENCY SITUATIONS * 29700025
                                  16699+*-------------------------------------------------------------------* 29790025
00C47C 5010 0048            00048 16700+         ST    R1,CAW .            SET UP THE CAW                       29880028
00C480 4820 F6EC            0C966 16701+         LH    R2,RASRES .         GET ACTUAL I/O ADDRESS OF RES        29970028
00C484 0550                       16702+         BALR  R5,R0 .             POINT R5 TO EMGWAIT                  30060028

                            0C486 16704+EMGWAIT  EQU   *                                                     30240025
00C486 ACFC F7FB      0CA75       16705+         STNSM RASDUMMY,DISABLE .  DISABLE ALL INTERRUPTS       @DA01099 30290029
00C48A 9D00 2000      00000       16706+         TIO   0(R2) .             IS SYSRES  AVAILABLE                 30330028
00C48E 4710 F240      0C4BA       16707+         BO    EMGHWT .            NOT OPERATIONAL                    JW 30380028
00C492 47C0 F226            0C4A0 16708+         BC    12,EMGSIO .         YES GO ATTEMPT SIO           @DY15943 30420034
00C496 BE57 007D            0007D 16709+         STCM  R5,M7,IONPSW+5 .    CAPTURE I/O INTERRUPTS             505 30510028
00C49A AD02 F7FB      0CA75       16710+         STOSM RASDUMMY,ENABLIO .  ALLOW I/O INTERRUPTS         @DA01099 30600029
00C49E 07F5                       16711+         BR    R5 .                LOOP UNTIL CHANNEL IS FREE           30690028

                            0C4A0 16713+EMGSIO   EQU   *                                                     30870025
00C4A0 986D F74A             0C9C4 16714+         LM    R6,RD,SYSREG6 .     RESTORE SYSTEM BASE REGS           HL 30960028
00C4A4 4170 00FF             000FF 16715+         LA    R7,XFF .            SET COUNT FOR ATTEMPTS             435 31410028
00C4A8 4150 F248            0C4C2 16716+         LA    R5,EMGSIO2 .        LOAD ERROR EXIT ADDRESS              31460028
00C4AC 9203 073D      0073D       16717+         MVI   SELECT,RASID .      INDICATE RAS FUNCTION        @DM02751 31470028
                                  16718+* THIS IS ALLOWED BECAUSE RAS KEEPS CONTROL UNTIL HARD WAIT           31480028
00C4B0 4580 FD66            0CFE0 16719+         BAL   R8,RASSIO .         GO ISSUE I/O                 @D34SDSK 31500034
00C4B4 1277                       16720+EMGSIOTC LTR   R7,R7 .             RETRY COUNT EXHAUSTED              481 31680028
00C4B6 4770 F156      0C3D0       16721+         BNZ   EMGENT              NO,TRANSIENT IS NOW IN CORE  @D347DAZ 31950034
00C4BA 9602 F13F      0C3B9       16722+EMGHWT   OI    SOFTPSW+1,WAITBIT   SET WAIT BIT ON IN PSW             JW 32040028
00C4BE 8200 F13E      0C3B8       16723+         LPSW  SOFTPSW .           ENTER A DISABLED WAIT                32090028

00C4C2 4670 FD66            0CFE0 16725+EMGSIO2  BCT   R7,RASSIO .         RETRY UNTIL COUNT EXHAUSTED        HL 32180034
00C4C6 47F0 F23A      0C4B4       16726+         B     EMGSIOTC .          COUNT EXHAUSTED                    HL 32190028


                            0C4CA 16728+RASIOE   EQU   *                                                     32220025
00C4CA 5070 F70E             0C988 16729+         ST    R7,TRANSAV7 .       STORE RETURN ADDRESS               HL 32310028
00C4CE 5010 F6AE             0C928 16730+         ST    R1,RASCCB+8 .       SET UP THE CCW ADDRESS               32400028
00C4D2 4020 F6AC             0C926 16731+         STH   R2,RASCCB+6 .       PUT LUB NUMBER IN CCB                32490028
00C4D6 4110 F6A6             0C920 16732+         LA    R1,RASCCB .         GET ADDRESS OF OUR CCB               33564228
00C4DA 9506 F6EA      0C964       16733+         CLI   RTAID,RASRTYID .    IS IT RETRY                  @DM01647 33614228
00C4DE 4770 F26C      0C4E6       16734+         BNE   RASSYSIO .          NO,DO NOT MODIFY             @DM01647 33664228
00C4E2 BF18 FDF6             0D070 16735+         ICM   R1,M8,RASHION .     POST HIGH ORDER BIT IN R1    @D347DAZ 33674234
                                  16736+* SUPERVISOR - SYSIO - 5745-SC-SUP - REL. 34.0                       @D34SDAP 00500034
00C4E6 0A0F                       16737+RASSYSIO SVC   15                  HEAD QUEUE I/O REQUEST       @D34SDAP 01860034
00C4E8 9180 1002      00002       16738+         TM    2(1),X'80'          HAS TRAFFIC BIT BEEN POSTED  @D34SDAP 02300034
00C4EC 4710 F278      0C4F2       16739+         BO    *+6                 YES                                  02400028
00C4F0 0A07                       16740+         SVC   7                   NO, WAIT FOR I/O COMPLETE    @D34SDAP 02500034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            0C4F2 16742+RASIOTST EQU   * .                                          @D34DDAZ 33690034
00C4F2 47F0 FDDE      0D058       16743+         B     RTARETRN .         GO TO THE RTA           @DM01780 33890028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 16746+*-------------------------------------------------------------------* 34020025
                                 16747+*                                                                   * 34110025
                                 16748+*       R E S I D E N T  C H A N N E L  C H E C K  H A N D L E R     * 34200025
                                 16749+*                                                                   * 34290025
                                 16750+* FUNCTION                                                          * 34470025
                                 16751+*    DETERMINE THE SEVERITY OF THE CHANNEL CHECK                    * 34560025
                                 16752+*    DETERMINE IF A DAMAGED CHANNEL EXISTS                          * 34650025
                                 16753+*    FIND AND FILL AN ERPIB FOR INITIAL ERRORS                      * 34740025
                                 16754+*    FIND AND POST THE ERPIB FOR RETRY OF CHANNEL ERRORS            * 34830025
                                 16755+*                                                                   * 34920025
                                 16756+*    THIS ROUTINE WILL GAIN CONTROL FROM EITHER THE SIO OR I/O       * 35010025
                                 16757+*    INTERRUPT ROUTINES WHEN A CHANNEL CHECK OCCURS.  THE ECSW       * 35100025
                                 16758+*    IS INSPECTED TO DETERMINE IF ENOUGH INFORMATION IS VALID TO     * 35190025
                                 16759+*    ISOLATE THE DAMAGE TO EITHER A CHANNEL OR A DEVICE.            * 35280025
                                 16760+*                                                                   * 35370025
                                 16761+*    IF THE DAMAGE CANNOT BE ISOLATED TO A DEVICE, THE ENTIRE       * 35460025
                                 16762+*    CHANNEL IS CONSIDERED DAMAGED.  AN ERPIB IS CREATED WITH THE   * 35550025
                                 16763+*    PUB FIELD OF THE ERPIB CONTAINING THE ADDRESS OF THE DAMAGED   * 35640025
                                 16764+*    CHANNEL.  THE CSW AND ECSW ARE SAVED IN THE ERPIB FOR THE      * 35730025
                                 16765+*    NON-RESIDENT CHANNEL CHECK HANDLER.  IF THE DAMAGE CAN BE      * 35820025
                                 16766+*    ISOLATED TO A DEVICE, THE ENTIRE ERPIB IS FILLED FOR THE       * 35910025
                                 16767+*    NON-RESIDENT CHANNEL CHECK HANDLERS.  IN EITHER CASE THE       * 36000025
                                 16768+*    PROPER FLAGS ARE SET TO INITIATE NON-RESIDENT RECORDING AND    * 36090025
                                 16769+*    RETRY FUNCTIONS.                                               * 36180025
                                 16770+*                                                                   * 36270025
                                 16771+*    THIS ROUTINE WILL INTERCEPT ALL I/O INTERRUPTS WHEN THE RTA     * 36360025
                                 16772+*    HAS AN I/O REQUEST ACTIVE.  IF THE INTERRUPT BELONGS TO THE    * 36450025
                                 16773+*    RTA, THE ERPIB IS FOUND AND POSTED, THE RAS CCB IS DEQUEUED,   * 36540025
                                 16774+*    AND THE USER'S CCB IS REQUEUED TO THE PUB. IF ANOTHER CHANNEL  * 36630025
                                 16775+*    CHECK HAS OCCURRED, THE NORMAL INTERRUPT ROUTINE IS BYPASSED.  * 36720025
                                 16776+*    THIS PREVENTS POSTING OF THE USER'S CCB AND ALLOWS THE RETRY   * 36810025
                                 16777+*    MODULE TO TRY AGAIN UNDER CONTROL OF A RETRY COUNT.  IF THE    * 36900025
                                 16778+*    RETRY WAS SUCCESSFUL, THE INTERRUPT IS PASSED BACK TO THE      * 36990025
                                 16779+*    NORMAL INTERRUPT HANDLER FOR PROCESSING.                       * 37080025
                                 16780+*    IF THE INTERRUPT DOES NOT BELONG TO THE RTA MODULE, THE        * 37170025
                                 16781+*    INTERRUPT IS PASSED BACK TO THE NORMAL INTERRUPT HANDLER.      * 37260025
                                 16782+*                                                                   * 37350025
                                 16783+*    THIS ROUTINE CAN HANDLE 4 DAMAGED DEVICES, OR 1 DAMAGED        * 37440025
                                 16784+*    CHANNEL AND 3 DAMAGED DEVICES AT ONE TIME.  IF 2 CHANNELS      * 37530025
                                 16785+*    BECOME DAMAGED AT ONE TIME OR THE ERPIB QUEUE OVERFLOWS, AN    * 37620025
                                 16786+*    EXIT IS MADE TO THE EMERGENCY EXIT ROUTINE.                    * 37710025
                                 16787+*                                                                   * 37800025
                                 16788+* ENTRY POINTS                                                     * 37890025
                                 16789+*          CCENTRY1 ENTERED ON THE INITIAL DETECTION OF A CHANNEL CHECK* 37980025
                                 16790+*          CCENTRY2 ENTERED AT INTERRUPT TIME WHEN RTA I/O IS ACTIVE * 38070025
                                 16791+*                   OR AT SIO TIME FOR A CHANNEL CHECK RETRY REQUEST * 38250034
                                 16792+*                   IF NO CHANNEL CHECK OCCURED                     * 38260034
                                 16793+*          RASDEQ   ENTRY FROM RTA TO DEQUEUE A CCB                 * 38340025
                                 16794+*                                                                   * 38430025
                                 16795+* INPUT                                                            * 38520025
                                 16796+*    CHANNEL STATUS WORD                                            * 38610025
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 16797+*    INDEPENDANT CHANNEL LOG OUT (ECSW)                                  * 38700034
                                 16798+*    I/O OLD PSW                                                         * 38790025
                                 16799+*                                                                        * 38880025
                                 16800+* OUTPUT                                                                 * 38970025
                                 16801+*    ERPIBS                                                              * 39060025
                                 16802+*    INDEPENDENT CHANNEL LOG OUT (ECSW) BIT X'80' IN BYTE 0              * 39080034
                                 16803+*                                                                        * 39150025
                                 16804+* EXTERNAL REFERENCES                                                    * 39240025
                                 16805+*          LABEL    NAME AND LOCATION                                    * 39330025
                                 16806+*          ECSWVAL  VALIDITY BYTE IN THE INDEPENDANT LOG OUT AREA        * 39420025
                                 16807+*          EMGEX1   EMERGENCY EXIT ROUTINE IN MACHINE CHECK HANDLER      * 39510025
                                 16808+*          EMGEX4   EMERGENCY EXIT ROUTINE IN MACHINE CHECK HANDLER      * 39780025
                                 16809+*          EMGEX5   EMERGENCY EXIT ROUTINE IN MACHINE CHECK HANDLER      * 39870025
                                 16810+*          EMGEX6   EMERGENCY EXIT ROUTINE IN MACHINE CHECK HANDLER      * 39960025
                                 16811+*          EMGEX7   EMERGENCY EXIT ROUTINE IN MACHINE CHECK HANDLER      * 39980034
                                 16812+*          RESET    RETRY/RESET CODES IN THE INDEPENDANT LOG OUT AREA    * 40050025
                                 16813+*          RASFLAGS FLAGS IN THE RAS LINKAGE AREA                        * 40140025
                                 16814+*          CPUID    CPU ID AREA OF RAS LINKAGE AREA                      * 40410025
                                 16815+*          ERPIBQ   HEAD OF ERPIB QUEUE                                  * 40500034
                                 16816+*          CQDSP    ROUTINE TO INITIALIZE CHANNEL SCHEDULER REGISTERS    * 40950025
                                 16817+*          ERPIBCSW CHANNEL STATUS WORD IN THE ERPIB                     * 41130025
                                 16818+*          ERPIBESW EXTENDED CHANNEL STATUS WORD IN THE ERPIB            * 41220025
                                 16819+*          ERPIBFLG ERPIB FLAGS                                          * 41310025
                                 16820+*          ERPIBPUB ADDRESS OF PUB IN ERPIB                              * 41490025
                                 16821+*          ERPIBREQ REQUESTORS ID IN THE ERPIB                           * 41580025
                                 16822+*          PUBCHANN CHANNEL ADDRESS IN THE PUB                           * 41670025
                                 16823+*          PUBCSFLG CHANNEL SCHEDULER FLAGS IN THE PUB                   * 41850025
                                 16824+*          PUBDEVTY DEVICE TYPE ENTRY IN THE PUB                         * 41940025
                                 16825+*          RASDMC   DAMAGED CHANNEL BYTE IN THE RAS LINKAGE AREA         * 42030025
                                 16826+*          RASRES   DEVICE ADDRESS OF SYSRES IN THE RAS TABLE            * 42120025
                                 16827+*          RASLOG   DEVICE ADDRESS OF SYSLOG IN THE RAS TABLE            * 42140034
                                 16828+*          CHNADR   CHANNEL ADDRESS IN THE I/O INTERRUPT CODE            * 42210028
                                 16829+*          REQID    REQUESTORS ID IN THE CHANNEL QUEUE ENTRY             * 42390034
                                 16830+*          CHNSTA   CHANNEL STATUS IN THE CHANNEL STATUS WORD            * 42480025
                                 16831+*          RASSAVAR SAVE AREA OF RAS SYSTEM TASK                         * 42481034
                                 16832+*          LD00SLOT LOAD LIST ENTRY OF $$RAST00 IN RAS TABLE             * 42482034
                                 16833+*          LD10SLOT LOAD LIST ENTRY OF $$RAST10 IN RAS TABLE             * 42483034
                                 16834+*          P2TFLG1  PUB2 FOR TAPES FLAG BYTE 1                           * 42484034
                                 16835+*          P2TNAME  PUB2 FOR TAPES NAME OF ERP MODULE                    * 42485034
                                 16836+*          RTAOWN   OWNERSHIP BYTE OF RTA IN RAS TABLE                   * 42485834
                                 16837+*          RTAID    ID OF I/O REQUEST FOR RTA MODULE IN RAS TABLE        * 42486634
                                 16838+*          RASUCSW  SAVE AREA FOR USER CSW                               * 42487434
                                 16839+*          RASUPUB  SAVE AREA FOR USW PUB ADDRESS                        * 42488234
                                 16840+*          RASTAPSW FLAG BYTE                                            * 42490034
                                 16841+*          SELECT   SYSTEM TASK SELECTION CONTROL BYTE                   * 42490834
                                 16842+*          RASPTR   DISPLACEMENT OF RAS TASK BLOCK                       * 42491634
                                 16843+*          ASYSBLK0 BASE ADDRESS OF SYSTEM TASK BLOCKS                   * 42492434
                                 16844+*          SYSPIBFL ADDRESS OF RASFLG IN RASBLOCK                        * 42493234
                                 16845+*          SPIBFLG  =RASFLG  PIBFLAG OF RAS SYSTEM TASK                  * 42495034
                                 16846+*          AYSYBLKX POINTER TO ACTIVE SYSTEM TASK BLOCK                  * 42496034
                                 16847+*          NOTRTA   LABEL OF RETURN TO I/O INTERRUPT HANDLER             * 42500034
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                                 16848+*         TRNOFFCC LABEL OF RETURN TO I/O INTERRUPT HANDLER          * 42510034
                                 16849+*         TRNOFF   LABEL OF RETURN TO I/O INTERRUPT HANDLER          * 42520034
                                 16850+*         TSTERF   LABEL OF RETURN TO I/O INTERRUPT HANDLER          * 42530034
                                 16851+*         INITRG   LABEL OF RETURN RO I/O INTERRUPT HANDLER          * 42540034
                                 16852+*                                                                    * 42750025
                                 16853+* EXITS,NORMAL                                                       * 42840025
                                 16854+*         NOTRTA   RESUME I/O INTERRUPT HANDLING                     * 43020034
                                 16855+*         TRNOFFCC EXIT TO 'OR' STATUS AND DEQUEUE USER CCB          * 43021034
                                 16856+*         TRNOFF   EXIT TO DEQUEUE USER CCB                          * 43022034
                                 16857+*         TSTERF   EXIT TO DEQUEUE RAS CCB AND PROCESS USER CCB      * 43023034
                                 16858+*         INITRG   EXIT TO RESTART CHANNEL                           * 43024034
                                 16859+*         VIA R8   RETURN TO RTA AFTER DEQUEUE FUNCTION PERFORMED    * 43290025
                                 16860+*         VIA R6   EXIT TO TASK SELECTION                            * 43380028
                                 16861+*                                                                    * 43470025
                                 16862+* EXITS,ERROR                                                       * 43560025
                                 16863+*         EMGEX1   CHANNEL ADDRESS  IS NOT VALID                     * 43650025
                                 16864+*         EMGEX4   2 CHANNELS HAVE BECOME DAMAGED AT ONE TIME        * 43920025
                                 16865+*         EMGEX5   THE ERPIB QUEUE HAS BEEN EXHAUSTED                * 44010025
                                 16866+*         EMGEX6   NO ECSW STORED                                    * 44060026
                                 16867+*         EMGEX7   CC ERROR ON LOG WITH RAS MSG SCHEDULED            * 44070034
                                 16868+*                                                                    * 44100025
                                 16869+* TABLES/WORK AREAS  NOT APPLICABLE                                  * 44190025
                                 16870+*                                                                    * 44280025
                                 16871+* ATTRIBUTES                                                        * 44370025
                                 16872+*    REENTRANT,DISABLED,PRIVILEGED,RESIDENT                          * 44460025
                                 16873+*                                                                    * 44550025
                                 16874+* CHARACTER CODE DEPENDENCY  NOT APPLICABLE                         * 44640025
                                 16875+*                                                                    * 44730025
                                 16876+* NOTES                                                             * 44820025
                                 16877+*    REGISTER USAGE                                                  * 44910025
                                 16878+*          R1       CCB ADDRESS                                      * 45000025
                                 16879+*          R2       WORK REGISTER                                    * 45090025
                                 16880+*          R3       ADDRESS OF THE PUB                               * 45180025
                                 16881+*          R4       CHANNEL QUEUE POINTER                            * 45270025
                                 16882+*          R5       ADDRESS OF THE LUB QUEUE AND ERPIB ADDRESS       * 45360028
                                 16883+*          R6       ERROR CODE                                       * 45450028
                                 16884+*          R7       LINK REGISTER                                    * 45540025
                                 16885+*          R8       LINK AND EXTENDED LOG ADDRESS                    * 45630025
                                 16886+*          R9       EXIT REGISTER                                    * 45720025
                                 16887+*          RC       WORK REGISTER                                    * 45730034
                                 16888+*          RD       BASE ADDRESS OF EXCP ROUTINES                    * 45740034
                                 16889+*          RF       BASE REGISTER                                    * 45811028
                                 16890+*                                                                    * 45900025
                                 16891+*-----------------------------------------------------------------------* 45990025
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   16893+*-------------------------------------------------------------------* 46171034
                                   16894+*   THIS ROUTINE IS ENTERED WHEN A CHANNEL CHECK HAS OCCURRED WITH   * 46173034
                                   16895+*   AN I/O INTERRUPT OR AT SIO TIME                                 * 46175034
                                   16896+*-------------------------------------------------------------------* 46177034
00C4F6 9104 0040      00040        16897+CCENTRY1 TM    CSW,LOGPEND .      IS A LOG OUT PENDING             513 46220028
00C4FA 0716                        16898+         BOR   R6                 YES, GO ALLOW INTERRUPT      @D34SDAZ 46230034
00C4FC 1211                        16899+         LTR   R1,R1              IS THERE A CCB               @D34SDAZ 46231034
00C4FE 4780 F2C4      0C53E        16900+         BZ    NOCRTRAS           NO, SKIP                     @D34SDAZ 46231234
00C502 95B2 3004      00004        16901+         CLI   PUBDEVTY,T125D .   IS IT ON CRT                 @DM03777 46231628
00C506 4780 F2A0      0C51A        16902+         BE    CRTRAS             YES,GO SAVE ECSW             @D34EDSK 46231834
00C50A 95B0 3004      00004        16903+         CLI   PUBDEVTY,T3277     IS IT ON CRT                 @D34EDSK 46232034
00C50E 4770 F2C4      0C53E        16904+         BNE   NOCRTRAS .         NO,SKIP                      @D34EDSK 46232434
00C512 9509 4004      00004        16905+         CLI   REQID,CRT          IS IT CRT REQUEST            @D34EDSK 46232634
00C516 4770 F2C4      0C53E        16906+         BNE   NOCRTRAS           NO,SKIP                      @D34EDSK 46232834
00C51A 1233                        16907+CRTRAS   LTR   R3,R3              WAS PUB FOUND                @DY11696 46233034
00C51C 4740 F2C4      0C53E        16908+         BM    NOCRTRAS           NO, CANNOT BE CRT            @DY11696 46233234
00C520 9103 00B2      000B2        16909+         TM    ECSWVAL,VALCHA+VALUNA CUU VALID                 @DY11696 46233434
00C524 47E0 F2C4      0C53E        16910+         BNO   NOCRTRAS           NO, BY ACCIDENT CRT ADDRESS  @DY11696 46233634
00C528 5890 072C            0072C  16911+         L     R9,IJBCONSP        GET CRT-TABLE                @DY11696 46233834
                                   01898 16912+         USING CRTTAB,R9 .        DECLARE BASE           @DM02617 46234028
00C52C D203 9014 00B0 018AC 000B0 16913+         MVC   CRTEINF(D4),EXCSW .SAVE ESCW FOR CRT-CCH       @DM02617 46234828
00C532 9620 1002      00002        16914+         OI    CCBCOM1,DISERR .   POST CCB WITH ERROR          @DM02617 46235628
00C536 5890 070C            0070C  16915+         L     R9,AINTER .        RESTORE IOINTER BASE         @DM02617 46236428
                                   02EDA 16916+         USING INTRTN,R9 .        RESTORE ADDRESSABILITY @DM02617 46237228
00C53A 47F0 934C      03226        16917+         B     TRNOFFCC           POST AND DEQUEUE             @DA02861 46238031
                                   0C53E 16918+NOCRTRAS EQU   * .                END OF CRT HOOK          @DM02617 46238828
00C53E 9180 0819      00819        16919+         TM    RASFLAGS,RASACT .  RAS ACTIVE                   @DF00928 46240028
00C542 4710 F30E      0C588        16920+         BO    CCRASACT .         YES                          @DF00928 46250028
00C546 9680 0819      00819        16921+         OI    RASFLAGS,RASACT .  BIT FOR RAS COMPL. TEST      @DS28005 46254128
00C54A 9500 073D      0073D        16922+         CLI   SELECT,ZERO .      ANY SYST. TASK  ACT.         @DS28005 46254428
00C54E 4780 F2F0      0C56A        16923+         BE    CCRASRDY .         NO                           @DS28005 46254828
00C552 9503 073D      0073D        16924+         CLI   SELECT,RASID       HIGHER PRIORITY ?            @D34SDSK 46254934
00C556 4740 F2F0      0C56A        16925+         BL    CCRASRDY           YES,DO NOT CLEAR SELECT BYTE @D34SDSK 46255034
00C55A 5890 0794            00794  16926+         L     R9,ASYSBLKX .      LOAD ACT. SYST. TASK BLOCK   @DS28005 46255228
                                   00000 16927+         USING SYSBLKS,R9 .       DECLARE BASE           @DS28005 46255628
00C55E 4890 9000            00000  16928+         LH    R9,SYSPIBFL .      GET PIB OF SYST. TASK        @DS28005 46255728
                                   00000 16929+         USING SPIBADR,R9 .       DECLARE BASE           @DS28005 46255828
00C562 9283 9000      00000        16930+         MVI   SPIBFLG,READY .    SET THAT TASK TO READY       @DS28005 46255928
00C566 9200 073D      0073D        16931+         MVI   SELECT,ZERO .      MAKE RAS SELECT.             @DS28005 46257928
                                   0C56A 16932+CCRASRDY EQU   *                                         @DS28005 46262928
00C56A 1B99                        16933+         SR    R9,R9 .            CLEAR REG.                   @DS28005 46264928
00C56C 4390 079B            0079B  16934+         IC    R9,RASPTR .        GET POINTER TO RAS           @DS28005 46266928
00C570 5A90 0790            00790  16935+         A     R9,ASYSBLK0 .      ADD START OF SYSTEM BLOCKS   @DS28005 46268928
                                   00000 16936+         USING SYSBLKS,R9 .       DECLARE BASE           @DS28005 46269328
00C574 4890 9000            00000  16937+         LH    R9,SYSPIBFL .      GET PIB OF RAS               @DS28005 46269728
                                   00000 16938+         USING SPIBADR,R9 .       DECLARE BASE           @DS28005 46270128
00C578 95E9 F6DD      0C957        16939+         CLI   RTAOWN,RASZERO .   IS RAST00 INLINE             @DM00124 46270628
00C57C 4770 F30A      0C584        16940+         BNE   CCNOTIN .          NO, RAS IS ALREADY STARTED   @DM00124 46270928
00C580 9286 9000      00000        16941+         MVI   SPIBFLG,INITRAS .  ACTIVATE RAS                 @DS28005 46271128
                                   0C584 16942+CCNOTIN  EQU   * .                ENTER WHEN RAS WAS IN    @DM00124 46271628
                                   02EDA 16943+         USING INTRTN,R9 .        ESTABLISH ADDRESSING       IB3.5 46320228
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C584 5890 070C            0070C 16944+         L     R9,AINTER .         RESTORE ADDRESS OF IOINTER   @DL28530 46320428
                            0C588 16945+CCRASACT EQU   *                                                @DF00928 46330428
00C588 9180 00B0      000B0       16946+         TM    EXCSW,ECSWST .      WAS AN ECSW STORED                    46350028
00C58C 4710 F10A      0C384       16947+         BO    EMGEX6 .            NO TAKE EMERGENCY EXIT                46400028
00C590 9102 00B2      000B2       16948+         TM    ECSWVAL,VALCHA .    IS CHANNEL ADDRESS VALID              46410028
00C594 47E0 F100      0C37A       16949+         BNO   EMGEX1 .            NO  TAKE EMERGENCY EXIT               46420028
00C598 95FF 3000      00000       16950+         CLI   PUBCHANN,XFF        CHNL ERROR ON NOT SPEC CHNL  @DY11696 46420334
00C59C 4780 F592      0C80C       16951+         BE    CCEXIT4             YES, DON'T CARE              @DY11696 46420634
                            0C5A0 16952+CCRASAC1 EQU   *                                                @D34SDAZ 46425034
00C5A0 9110 00B2      000B2       16953+         TM    ECSWVAL,VALRTRY .   RETRY CODES VALID                    46430028
00C5A4 47E0 F33E      0C5B8       16954+         BNO   CCDAMAGE .          NO  TREAT AS CHANNEL DAMAGE           46440028
00C5A8 91C0 00B3      000B3       16955+         TM    RESET,SYSRST .      IS SYSTEM RESET CODE ON               46490028
00C5AC 4710 F33E      0C5B8       16956+         BO    CCDAMAGE .          YES GO TO CHANNEL DAMAGE ROUTINE      46500028
00C5B0 9101 00B2      000B2       16957+         TM    ECSWVAL,VALUNA .    IS THE UNIT ADDRESS VALID             47250025
00C5B4 4710 F37C      0C5F6       16958+         BO    CCENTRY2 .          YES, GO HANDLE THE ERROR         513 47340028
00C5B8 9101 0819      00819       16959+CCDAMAGE TM    RASFLAGS,RTAIOA .   IS RTA I/O ACTIVE                     48240028
00C5BC 4710 F106      0C380       16960+         BO    EMGEX4 .            YES  TERMINATE THE SYSTEM             48330028
00C5C0 95FF 0818      00818       16961+         CLI   RASDMC,NOCHAN .     IS A CHANNEL ALREADY DAMAGED          48420028
00C5C4 4780 F358      0C5D2       16962+         BE    CCSETDMC .          NO  GO SET DAMAGED CHANNEL BYTE       48510028
00C5C8 D500 00BA 0818 000BA 00818 16963+         CLC   CHNADR(L1),RASDMC   SAME CHANNEL DAMAGED                   48600028
00C5CE 4770 F106      0C380       16964+         BNE   EMGEX4 .            NO  TERMINATE THE SYSTEM              48690028
00C5D2 D200 0818 00BA 00818 000BA 16965+CCSETDMC MVC   RASDMC(L1),CHNADR   SET THE DAMAGED CHANNEL BYTE       513 48870028
00C5D8 D500 00BA F6EC 000BA 0C966 16966+         CLC   CHNADR(L1),RASRES   IS THIS THE SYSRES CHANNEL             48960028
00C5DE 4770 F372      0C5EC       16967+         BNE   CCDCEXIT .          NO  GO CREATE A CHANNEL DAMAGE ERPIB  49050028
00C5E2 D201 00BA F6EC 000BA 0C966 16968+         MVC   CHNADR(L2),RASRES   ASSUME THE ERROR IS ON SYSRES          49140028
00C5E8 47F0 F37C      0C5F6       16969+         B     CCENTRY2 .          CONTINUE                         513 49230028

00C5EC 4133 0000            00000 16971+CCDCEXIT LA    R3,D0(R3)           POSITIVE                     @DY11696 49360034
00C5F0 1133                       16972+         LNR   R3,R3               SET R3 NEG FOR ERPIB ROUTINE @DY11696 49410034
00C5F2 47F0 F51A      0C794       16973+         B     ERPIBCR .           GO CREATE A CHANNEL DAMAGE ERPIB      49500028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  16975+*-------------------------------------------------------------------* 50760025
                                  16976+*   THIS ROUTINE INTERCEPTS ALL I/O INTERRUPTS. IT IS ALSO ENTERED  * 50850034
                                  16977+*   FROM CCENTRY1, AND AT SIO TIME FOR A CHANNEL CHECK RETRY REQUEST * 50890034
                                  16978+*   WHEN NO CHANNEL CHECK HAS OCCURED.                              * 50920034
                                  16979+*-------------------------------------------------------------------* 51030025

                            0C5F6 16981+CCENTRY2 EQU   * .                                        @DM03776 51210028
00C5F6 1233                       16982+         LTR   R3,R3              WAS PUB FOUND         @DY11696 51230034
00C5F8 4133 0000            00000 16983+         LA    R3,D0(R3)          POSITIVE              @DY11696 51250034
00C5FC 4740 F58A      0C804       16984+         BM    CCEXIT3            NO                    @DY11696 51270034
00C600 1211                       16985+         LTR   R1,R1 .            IS THERE A CCB             513 51300028
00C602 4770 F394      0C60E       16986+         BNZ   CCYESCCB .         YES GO CHECK CCB           513 51390028
00C606 947F 3006      00006       16987+         NI    PUBCSFLG,XFF-DEVBSY RESET THE BUSY BIT         513 51440028
00C60A 47F0 F424      0C69E       16988+         B     CCEXIT2C           GO BACK TO CALLER     @DM15839 51450034

00C60E 9501 4004      00004       16990+CCYESCCB CLI   REQID,SNS .        IS IT A SENSE TASK REQUEST @DY13873 51550034
00C612 4780 F428      0C6A2       16991+         BE    CCEXIT2            YES, GO BACK TO CALLER @DY13873 51600034
00C616 4400 0B22            00B22 16992+         EX    R0,MVZONE          ISOLATE DEVICE TYPE    @DY13873 51650034
00C61A 4570 F498            0C712 16993+         BAL   R7,ERPIBLUP .      GO LOOK FOR AN ERPIB       513 51840028
00C61E 47F0 F512      0C78C       16994+         B     ERPIBCRA .         NO MATCHING ENTRY FOUND @D34SDAZ 51890034
                                  16995+*-------------------------------------------------------------------* 52920025
                                  16996+*   COME HERE WHEN AN ACTIVE ERPIB EXISTS FOR THE INTERRUPTING DEVICE * 53010025
                                  16997+*-------------------------------------------------------------------* 53100025
                            00000 16998+         USING ERPIBADR,R5                                 @D34SDAZ 53110034
00C622 9102 0819      00819       16999+         TM    RASFLAGS,CCSIOB    FROM START I/O         @DA08094 53130033
00C626 4710 F3B8      0C632       17000+         BO    CCNOTINT           YES, NO INTERRUPT      @DA08094 53170033
00C62A 9180 3006      00006       17001+         TM    PUBCSFLG,DEVBSY    RETRY STARTED          @DA08094 53240033
00C62E 47E0 F58A      0C804       17002+         BNO   CCEXIT3            NO                     @DA08094 53260033
00C632 9560 0870      00870       17003+CCNOTINT CLI   DEVZON,DASD        DISK DEVICE            @DA08094 53460033
00C636 4770 F3D4      0C64E       17004+         BNE   CCRTYCHK .         NO  GO DO RETRY CHECKS           53550028
00C63A 9106 0045      00045       17005+         TM    CHNSTA,CHNCHK .    CHANNEL CHECK ON DASD            53640028
00C63E 4770 F57E      0C7F8       17006+         BNZ   CCNOT10 .          YES                    @D34DDAZ 53730034
00C642 94FD 5014      00014       17007+         NI    ERPIBFLG,XFF-CCDASDB DEACTIVE DASD ERPIB       513 53820028
00C646 92FB 5000      00000       17008+         MVI   ERPIBCSW,CRGCODE   SET GOOD COMPLETION CODE @DA08988 53860034
00C64A 47F0 F428      0C6A2       17009+         B     CCEXIT2  .         NO  RETURN TO CALLING RTN @D34SDAZ 53910034

00C64E 4170 00FC            000FC 17011+CCRTYCHK LA    R7,CHNCODE .       SET CHANNEL CHECK CODE     513 54180028
00C652 9106 0045      00045       17012+         TM    CHNSTA,CHNCHK .    CHANNEL CHECK                  54270028
00C656 4770 F3E4      0C65E       17013+         BNZ   CCRTYTST .         YES CHECK RETRY REQUEST        54360028
00C65A 4170 00FB            000FB 17014+         LA    R7,CRGCODE .       NO  SET GOOD COMPLETION CODE   54450028

00C65E 9503 4004      00004       17016+CCRTYTST CLI   REQID,RASID .      IS THIS A RAS REQUEST      513 54720028
00C662 4770 F58A      0C804       17017+         BNE   CCEXIT3 .          NO  GO RESTART THE CHANNEL     54810028
00C666 9506 F6EA      0C964       17018+         CLI   RTAID,RASRTYID .   IS IT A RETRY               HL 54812528
00C66A 4770 F58A      0C804       17019+         BNE   CCEXIT3 .          NO, GO RESTART THE CHANNEL     HL 54815028
00C66E 4270 5000            00000 17020+         STC   R7,ERPIBCSW .      YES  SET THE COMPLETION CODE   54900028
00C672 5050 F656            0C8D0 17021+         ST    R5,CCSAVE5 .       SAVE ERPIB PTR         @DM01780 54920028
00C676 95FC 5000      00000       17022+         CLI   ERPIBCSW,CHNCODE . RETRY UNSUCCESSFULL    @DM05065 54922029
00C67A 4780 F424      0C69E       17023+         BE    CCEXIT2C           YES,DO NOT SAVE        @DM15839 54923034
00C67E 5870 0828            00828 17024+         L     R7,RASTATAD .      PTR TO SAVEAREA        @DM05065 54925029
                            0D072 17025+         USING RASUCSW,R7 .       DECLARE BASE           @DL29ZCJ 54930029
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C682 D207 7000 0040 0D072 00040 17026+         MVC   RASUCSW(L8),CSW    . SAVE CSW                    @DL29ZCF 54935029
00C688 D201 7008 500E 0D07A 0000E 17027+         MVC   RASUPUB(L2),ERPIBPUB SAVE USER PUB PTR           @DL29ZCJ 54940029
00C68E 9680 FDF7      0D071       17028+         OI    RASTAPSW,RASRTSUC  INDICATE RETRY SUCCSESSFUL   @D34SDAZ 54941034
00C692 4870 500E            0000E 17029+         LH    R7,ERPIBPUB        GET USER PUB PTR              @D34SDAZ 54941234
                                00000 17030+         USING PUBADR,R7                                    @D34SDAZ 54941434
00C696 94EF 7006      00006       17031+         NI    PUBCSFLG,XFF-QEDERR  RELEASE PUB                 @D34SDAZ 54941634
00C69A 47F0 937A      03254       17032+         B     TSTERF             GO DEQ RAS CCB                @D34SDAZ 54942034
                                  17033+         DROP  R7 .               DROP TEMP. BASE               @DL29ZCJ 54950029

00C69E 94F9 0045      00045       17035+CCEXIT2C NI    CHNSTA,XFF-CHNCHK  CLEAR CHANNEL CHECK IN CSW  @DM15839 57022034
                                0C6A2 17036+CCEXIT2  EQU   * .                                          @D34SDAZ 57030034
00C6A2 94FD 0819      00819       17037+         NI    RASFLAGS,XFF-CCSIOB  RESET THE SIO BIT           @D347DAZ 57034034
00C6A6 47F0 90A4      02F7E       17038+         B     NOTRTA .           RETURN TO INTERRUPT HANDLER   @DM03030 57039928
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          0C6AA 17040+RASDEQ   EQU   * .                GO DEQUEUE I/O REQUEST       @DM01780 57042028
00C6AA 4570 0B20          00B20 17041+         BAL   R7,CQDSP .         SET UP REGISTERS             @DM01780 57043028
00C6AE 1211                     17042+         LTR   R1,R1 .            IS CCB AVAILABLE             @DM00214 57044028
00C6B0 0788                     17043+         BCR   8,R8 .             NO, DO NOT DEQUEUE           @DM00214 57045028
00C6B2 5080 F64A          0C8C4 17044+         ST    R8,RASAVE8 .       SAVE LINKREG                 @DM11359 57048731
00C6B6 9550 0870    00870       17045+         CLI   DEVZON,TAPES .     REQUEST FOR TAPE             @DM00214 57048829
00C6BA 4770 F468    0C6E2       17046+         BNE   RASDEQ0 .          NO,BYPASS TEST               @DM00214 57049028
00C6BE 58B0 0844          00844 17047+         L     RB,HEX1000 .       SET UP SYSTEM REGS           @D34RDFG 57051034
                          00000 17048+         USING SYSS00,R0,RB .     DECLARE BASE                 @D34RDFG 57051634
00C6C2 45E0 B292          01292 17049+         BAL   RE,RMSGETP2 .      GET PTR TO PUB2              @DM00214 57053028
                                17050+         DROP  RB .               DROP SYSTEM BASEREGS         @D34RDFG 57055034
                          00000 17051+         USING PUB2ADR,R8 .       DECLARE BASE FOR PUB2        @DM00214 57056028
00C6C6 9120 8008    00008       17052+         TM    P2TFLG1,P2TERP .   IS ERP IN PROCESS            @DM00214 57057028
00C6CA 4780 F468    0C6E2       17053+         BZ    RASDEQ0            NO                           @DA01230 57057231
00C6CE 9502 F6DD    0C957       17054+         CLI   RTAOWN,X'02'       IS $$RAST02 IN RTA           @DA01230 57057431
00C6D2 4770 F468    0C6E2       17055+         BNE   RASDEQ0           NO,                          @D34SDAZ 57057634
00C6D6 D702 8008 8008 00008 00008 17056+RASDEQD  XC    P2TFLG1(3),P2TFLG1  RESET PUB2 FLAGS          @DA01230 57059231
00C6DC D201 8006 F496 00006 0C710 17057+         MVC   P2TNAME(2),ABERAB  RESET PUB2 NAME              @DA01230 57059431
                          0C6E2 17058+RASDEQ0  EQU   * .                NORMAL RTN                   @DM00214 57060028
00C6E2 5880 F64A          0C8C4 17059+         L     R8,RASAVE8 .       RESTORE R8                   @DA01230 57060231
00C6E6 58B0 0844          00844 17060+         L     RB,HEX1000 .       LOAD SYSTEM BASEREGS         @D34RDFG 57074434
00C6EA 5890 070C          0070C 17061+         L     R9,AINTER .        ALSO FOR IOINTER             @DM03792 57074828
00C6EE 5870 F492          0C70C 17062+         L     R7,RASSAVA .       GET PTR TO SYSTEM SAVE       @DM03792 57080028
00C6F2 D203 7004 F48E 00004 0C708 17063+         MVC   4(4,R7),RASDEQN .  UPDATE PTR TO END OF DEQ     @DM04232 57082028
00C6F8 9098 7008          00008 17064+         STM   R9,R8,8(R7)        SAVE GEN. REGS. IN SAVEAREA  @DA09704 57083034
00C6FC 5860 086C          0086C 17065+         L     R6,DISPAD          R6 POINTS TO EXIT            @DM05356 57084033
00C700 47F0 9352    0322C       17066+         B     TRNOFF             GO DEQ                       @D34SDAZ 57184034
00C704 07F8                     17067+RASDEQEN BR    R8 .               RETURN TO CALLER             @DM03792 58860829
00C706 0000
00C708 0000C704                 17068+RASDEQN  DC    A(RASDEQEN) .      PTR TO END                   @DM03792 58861028
00C70C 00012040                 17069+RASSAVA  DC    A(RASSAVAR+8) .    PTR TO RAS SYSSAVE           @DM03792 58863028
00C710 C1C2                     17070+ABERAB   DC    C'AB'              RESET NAME FOR TAPE ERP      @DA01230 58863231
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  17072+*-------------------------------------------------------------------* 59130025
                                  17073+*   THIS ROUTINE SCANS THE ERPIB QUEUE FOR A MATCHING ENTRY WITH R3.  * 59220025
                                  17074+* IF R3 CONTAINS A PUB ADDRESS A MATCHING ENTRY IS ONE WHICH CONTAINS * 59310025
                                  17075+*   THE SAME PUB ADDRESS AND RETRY HAS NOT BEEN COMPLETED.           * 59400025
                                  17076+*   IF R3 CONTAINS ZERO A MATCHING ENTRY IS THE FIRST FREE ENTRY     * 59490025
                                  17077+*   EXIT IS VIA R7+0 IF A MATCHING ENTRY IS NOT FOUND         @D34SDAZ 59580034
                                  17078+*   EXIT IS VIA R7+4 IF A MATCHING ENTRY IS FOUND             @D34SDAZ 59630034
                                  17079+*-------------------------------------------------------------------* 59760025

00C712 4150 F79A          0CA14 17081+ERPIBLUP LA    R5,ERPIBQ .        GET ADDRESS OF ERPIB QUEUE       513 60030028
00C716 4180 0320          00320 17082+         LA    R8,EXLOG1 .        POINT TO FIRST LOG OUT AREA          60210028
00C71A 9034 F50A          0C784 17083+         STM   R3,R4,RASLUPSV .   SAVE REGISTERS               @DM01647 60262028
00C71E 1233                     17084+         LTR   R3,R3 .            IS R3 ZERO                   @DM01647 60264028
00C720 4780 F4BE    0C738       17085+         BZ    ERPIBTST .         YES,DO NOT MODIFY            @DM01647 60266028
00C724 4930 0690          00690 17086+         CH    R3,YPUBTAB .       USER PUB POINTER             @DM01647 60268028
00C728 47B0 F4BE    0C738       17087+         BNL   ERPIBTST .         YES,DO NOT MODIFY            @DM01647 60270028
00C72C 5930 0824          00824 17088+         C     R3,RASHQPTR .      IS IT A HEADQ PUB            @DM01647 60272028
00C730 4740 F4BE    0C738       17089+         BL    ERPIBTST .         NO,DO NOT MODIFY             @DM01647 60274028
                          00000 17090+         USING HQADR,R3 .         DECLARE BASE FOR HEADQ PUB   @DM01647 60276028
00C734 4830 3008          00008 17091+         LH    R3,HQPUBPTR .      GET POINTER TO USER PUB      @DM01647 60278028
                          0C738 17092+ERPIBTST EQU   * .                SCAN ERPIBS FOR MATCH        @DM01647 60280028
00C738 4840 500E          0000E 17093+         LH    R4,ERPIBPUB .      GET ERPIBPUB POINTER         @DM01647 60282028
00C73C 1934                     17094+         CR    R3,R4 .            DOES ENTRY MATCH             @DM01647 60284028
00C73E 4780 F4E2    0C75C       17095+         BE    ERPIBTS2 .         YES,CHECK IF RETRY FINISHED  @DM01647 60286028
00C742 5940 0824          00824 17096+         C     R4,RASHQPTR .      IS ENTRY IN HEADQPUB         @DM01647 60288028
00C746 4740 F4DC    0C756       17097+         BL    ERPIBTS1 .         NO,CHECK IT                  @DM01647 60290028
00C74A 4940 0690          00690 17098+         CH    R4,YPUBTAB .       IS ENTRY NORMAL PUB          @DM01647 60292028
00C74E 47B0 F4DC    0C756       17099+         BNL   ERPIBTS1 .         YES CHECK IT                 @DM01647 60570028
                                  17100+         DROP  R3 .               DROP BASE FOR HEADQ PUB      @DM01647 60572028
                          00000 17101+         USING HQADR,R4 .         DECLARE NEW BASE             @DM01647 60574028
00C752 4840 4008          00008 17102+         LH    R4,HQPUBPTR .      GET POINTER TO USER PUB      @DM01647 60576028
                                  17103+         DROP  R4 .               DROP TEMP BASE               @DM01647 60578028
                          00000 17104+         USING HQADR,R3 .         DECLARE ORIGINAL BASE        @DM01647 60580028
00C756 1934                     17105+ERPIBTS1 CR    R3,R4 .            DOES ENTRY MATCH             @DM01647 60582028
00C758 4770 F4EA    0C764       17106+         BNE   ERPIBUPD .         NO,CHECK NEXT                @DM01647 60584028
00C75C 95FB 5000    00000       17107+ERPIBTS2 CLI   ERPIBCSW,CRGCODE . HAS THE RETRY COMPLETED     @DM01647 60620028
00C760 4770 F500    0C77A       17108+         BNE   RASLUPR4 .         NO,TAKE MATCH EXIT           @DM01647 60670028
00C764 4155 0018          00018 17109+ERPIBUPD LA    R5,ERPIBWIT(R5) .  UPDATE TO NEXT ENTRY IN QUEUE    513 60840028
00C768 4188 0060          00060 17110+         LA    R8,EXLOGL(R8) .    UPDATE TO NEXT LOG OUT AREA          60930028
00C76C 95FF 5000    00000       17111+         CLI   ERPIBCSW,NULL .    IS THIS THE END OF THE QUEUE         61020028
00C770 4770 F4BE    0C738       17112+         BNE   ERPIBTST .         NO  GO TEST THIS ENTRY           513 61200028
00C774 9834 F50A          0C784 17113+         LM    R3,R4,RASLUPSV .   RESTORE REGISTERS           @DM01647 61250028
00C778 07F7                     17114+         BR    R7 .               TAKE NO MATCH EXIT           @DM01647 61252028
00C77A 9834 F50A          0C784 17115+RASLUPR4 LM    R3,R4,RASLUPSV .   RESTORE REGISTERS           @DM01647 61254028
00C77E 47F7 0004    00004       17116+         B     4(R7) .            TAKE MATCH EXIT              @DM01647 61256028
00C782 0000
00C784 0000000000000000         17117+RASLUPSV DC    2F'0' .            SAVEAREA FOR LOOKUP          @DM01647 61258028
                          00000 17118+         USING CHQADR,R4 .        RESTORE ADDRESSING           @DM01647 61260028
                          00000 17119+         USING PUBADR,R3 .        FOR BOTH TEMP. BASES         @DM01647 61264028

                                  17121+*-------------------------------------------------------------------* 61830025
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   17122+*   THIS ROUTINE IS ENTERED TO CREATE AN ERPIB FOR A CHANNEL CHECK    * 61920025
                                   17123+*-------------------------------------------------------------------* 62010025
00C78C 9106 0045      00045        17124+ERPIBCRA TM    CHNSTA,CHNCHK .    WAS ENTRY MADE FOR CHANNEL CHECK  513 62060028
00C790 4780 F428      0C6A2        17125+         BZ    CCEXIT2 .          NO, THIS IS A NORMAL INTERRUPT    513 62070028
00C794 96A0 F666      0C8E0        17126+ERPIBCR  OI    LD00SLOT,ACTLOAD+CCACT  SET $$RAST00 ACTIVE WITH CC  513 62190028
00C798 5030 F64E            0C8C8  17127+         ST    R3,CCSAVE3 .       SAVE PUB OR DAM. IND.        @DF00928 62240028
00C79C 1B33                        17128+         SR    R3,R3 .            SET R3 FOR FREE ENTRY SCAN            62370028
00C79E 4570 F498            0C712  17129+         BAL   R7,ERPIBLUP .      GO LOOK FOR AN ERPIB                  62460028
00C7A2 47F0 F108      0C382        17130+         B     EMGEX5 .           NO FREE ENTRY IN ERPIB QUEUE      513 62510028
                                   17131+*-------------------------------------------------------------------* 62550025
                                   17132+*   RETURN HERE IF A FREE ENTRY WAS FOUND IN THE ERPIB QUEUE          * 62640025
                                   17133+*-------------------------------------------------------------------* 62730025
                            0C7A6  17134+ERPIBFIL EQU   *                                                      63360025
00C7A6 9545 0815      00815        17135+         CLI   CPUID+5,T145 .     IS THIS A MODEL 145                   63540028
00C7AA 4780 F53C      0C7B6        17136+         BE    ELOG145            YES,SAVE EXT. LOGOUT         @D33RDSK 63570033
00C7AE 9548 0815      00815        17137+         CLI   CPUID+5,T148       IS THIS A MODEL 148          @D33RDSK 63600033
00C7B2 4770 F542      0C7BC        17138+         BNE   CCT155 .           NO  THEN EXTENDED LOG DOES NOT EXIST  63630028
00C7B6 D25F 8000 02C0 00000 002C0  17139+ELOG145  MVC   0(EXLOGL,R8),EXLOGB SAVE EXTENDED LOGOUT          @D33RDSK 63670033
00C7BC D207 5000 0040 00000 00040  17140+CCT155   MVC   ERPIBCSW(L8),CSW . SAVE THE CHANNEL STATUS WORD        513 63990028
00C7C2 D202 5015 00B1 00015 000B1  17141+         MVC   ERPIBESW(L3),ESOURCE SAVE THE EXTENDED CSW                64080028
00C7C8 9680 00B0      000B0        17142+         OI    EXCSW,ECSWST .     POST BIT FOR ECSW STORED TEST         64130028
00C7CC D200 500E 00BA 0000E 000BA  17143+         MVC   ERPIBPUB(L1),CHNADR SAVE CHANNEL ADDRESS                 64170028
00C7D2 5830 F64E            0C8C8  17144+         L     R3,CCSAVE3 .       RESTORE PUB OR DAM. IND.     @DF00928 64220028
00C7D6 1233                        17145+         LTR   R3,R3 .            RESTORE AND TEST PUB ADDR.   @DF00928 64260028
00C7D8 4740 F592      0C80C        17146+         BM    CCEXIT4 .          IF CHANNEL DAMAGE   EXIT ROUTINE      64350028
00C7DC 4030 500E            0000E  17147+         STH   R3,ERPIBPUB .      STORE THE PUB POINTER                 64440028
00C7E0 D300 5013 4007 00013 00007  17148+         MVZ   ERPIBREQ(L1),TKREQID SAVE THE REQUESTORS ID           LR 64510028
00C7E6 9120 F68E      0C908        17149+         TM    LD10SLOT,RAST10IO .IS RAS MSG WRITER I/O SCHEDULED       64530028
00C7EA 47E0 F57E      0C7F8        17150+         BNO   CCNOT10 .          NO  DO NOT CHECK FOR LOG              64620028
00C7EE D501 F6F0 3000 0C96A 00000  17151+         CLC   RASLOG(L2),PUBCHANN IS THIS THE LOG                     64710028
00C7F4 4780 F10C      0C386        17152+         BE    EMGEX7 .           YES, GO TO EMERGENCY EXIT         513 64890028
                            0C7F8  17153+CCNOT10  EQU   *                                                      65070025
00C7F8 9560 0870      00870        17154+CCBADSNS CLI   DEVZON,DASD .      DASD CHANNEL CHECK           @DA01017 67590028
00C7FC 4780 F598      0C812        17155+         BE    CCDASDE .          YES  ENTER DASD CHANNEL CHECK ROUTINE 67680028
00C800 9610 3006      00006        17156+         OI    PUBCSFLG,QEDERR .  INDICATE NO RESTART          @DM03763 67730028
00C804 94FD 0819      00819        17157+CCEXIT3  NI    RASFLAGS,XFF-CCSIOB RESET THE START I/O BIT            67950028
00C808 47F0 97B6      03690        17158+         B     INITRG .           GO SEE IF CHANNEL CAN BE RESTARTED 68130028

                            0C80C  17160+CCEXIT4  EQU   * .                                          @DM03181 68270028
00C80C 94FD 0819      00819        17161+         NI    RASFLAGS,XFF-CCSIOB RESET THE SIO BIT          @DM03763 68400028
00C810 07F6                        17162+         BR    R6 .               EXIT THE ROUTINE                  HL 68490028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 17164+*-------------------------------------------------------------------* 68670025
                                 17165+*   NAME                                                            * 68760025
                                 17166+*        D A S D   C H A N N E L   C H E C K   H A N D L E R        * 68850025
                                 17167+*                                                                    * 68940025
                                 17168+*                                                                    * 69030025
                                 17169+*                                                                    * 69210025
                                 17170+* FUNCTION                                                          * 69300025
                                 17171+*    RETRY DASD CHANNEL CHECKS BY RESTARTING THE CHAIN OF CCW'S      * 69390025
                                 17172+*    CANCEL PROBLEM PROGRAMS IF RETRY FAILS                          * 69480025
                                 17173+*    GO TO EMERGENCY EXIT ROUTINE IF RETRY OF SUPERVISOR REQUEST FAILS* 69570025
                                 17174+*                                                                    * 69750025
                                 17175+*    THIS ROUTINE GAINS CONTROL FROM THE CHANNEL CHECK HANDLER       * 69840025
                                 17176+*    WHEN THE DAMAGED CHANNEL IS A DASD.                             * 70000034
                                 17177+*                                                                    * 70020025
                                 17178+*    THE CHANNEL QUEUE POINTER BYTE OF THE ERPIB IS USED AS AN       * 70110025
                                 17179+*    ERROR COUNTER.  IF THE RETRY COUNT HAS NOT BEEN REACHED AND THE * 70200025
                                 17180+*    CHANNEL CHECK OCCURRED ON A SIO INSTRUCTION, A BRANCH TO THE SIO * 70290025
                                 17181+*    INSTRUCTION IS TAKEN.  IF THE CHANNEL CHECK OCCURRED AT         * 70380025
                                 17182+*    INTERRUPT TIME A BRANCH TO RESTART THE OPERATION IS TAKEN.      * 70470025
                                 17183+*                                                                    * 70560025
                                 17184+*    IF 10 RETRY ATTEMPTS FAIL, THE TASK IS CANCELLED.  IF THE       * 70650025
                                 17185+*    REQUEST IS OWNED BY THE SUPERVISOR, THE EMERGENCY EXIT ROUTINE  * 70740025
                                 17186+*    IS ENTERED TO TERMINATE THE SYSTEM.  IF THE RETRY ATTEMPT IS    * 70830025
                                 17187+*    SUCCESSFUL, A MESSAGE WILL BE ISSUED AFTER RECORDING THE ERROR  * 70920025
                                 17188+*    TO ALERT THE OPERATOR THAT A SOFT CHANNEL CHECK OCCURRED.       * 71010025
                                 17189+*                                                                    * 71100025
                                 17190+* ENTRY POINTS                                                      * 71190025
                                 17191+*         CCDASDE  ENTERED FROM THE CHANNEL CHECK HANDLER            * 71280025
                                 17192+* INPUT                                                             * 71370025
                                 17193+*    ERPIB                                                           * 71460025
                                 17194+*                                                                    * 71550025
                                 17195+* OUTPUT  NOT APPLICABLE                                            * 71640025
                                 17196+*                                                                    * 71730025
                                 17197+* EXTERNAL REFERENCES                                               * 71820025
                                 17198+*         LABEL    NAME AND LOCATION                                 * 71910025
                                 17199+*         ERPIBCQP CHANNEL QUEUE POINTER IN THE ERPIB                * 72000025
                                 17200+*         ERPIBFLG ERPIB FLAGS                                       * 72006034
                                 17201+*         ERPIBREQ REQUESTOR'S ID IN THE ERPIB                       * 72012034
                                 17202+*         RTAID    ID OF I/O REQUEST FOR RTA MODULE IN RAS TABLE     * 72018034
                                 17203+*         CCB      USER CCB                                          * 72024034
                                 17204+*         RASFLAGS RAS FLAGS IN THE RAS LINKAGE AREA                 * 72180025
                                 17205+*         PUBCHANN CHANNEL ADDRESS IN THE PUB                        * 72270025
                                 17206+*         PUBCSFLG CHANNEL SCHEDULER FLAGS IN THE PUB                * 72450025
                                 17207+*         STRTIO   SIO ROUTINE IN THE SUPERVISOR                     * 72630034
                                 17208+*         INITSIO  LABEL IN SUPERVISOR TO REISSUE I/O                * 72720025
                                 17209+*         TRNOFF   LABEL OF RETURN TO I/O INTERRUPT HANDLER          * 72740034
                                 17210+*         TKREQID  TASK ID IN THE CHANNEL QUEUE ENTRY                * 72770034
                                 17211+*         REQID    REQUESTORS ID IN THE CHANNEL QUEUE ENTRY          * 73020034
                                 17212+*         YPIBTAB  BASE ADDRESS OF PIBTAB IN COMRG                   * 73060034
                                 17213+*         EMGEX0   EMERGENCY EXIT FOR UNRECOVERABLE ERROR            * 73100034
                                 17214+*         EMGEX8   EMERGENCY EXIT FOR UNRECOVERABLE ERROR            * 73260025
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 17215+*                                                                  * 73440025
                                 17216+* EXITS,NORMAL                                                     * 73530025
                                 17217+*         STRTIO   EXIT TO RETRY SIO FAILURE                       * 73620034
                                 17218+*         INITSIO  EXIT TO RETRY INTERRUPT FAILURE                 * 73710025
                                 17219+*         TRNOFF   EXIT TO DEQUE USERS CCB                         * 73850026
                                 17220+*         ERR1B    CANCEL ROUTINE IN SUPERVISOR                    * 73860034
                                 17221+*                                                                  * 73890025
                                 17222+* EXITS,ERROR                                                      * 73980025
                                 17223+*         EMGEX0   UNRECOVERABLE CHANNEL CHECK ON PAGING DEVICE OR  * 73990034
                                 17224+*                  CHANNEL                                         * 74000034
                                 17225+*         EMGEX8   UNRECOVERABLE ERROR ON SUPERVISOR REQUSET       * 74070025
                                 17226+*                                                                  * 74160025
                                 17227+* TABLES/WORK AREAS,NOT APPLICABLE                                * 74250025
                                 17228+*                                                                  * 74340025
                                 17229+* ATTRIBUTES                                                       * 74430025
                                 17230+*    REENTRANT,DISABLED,PRIVILEGED,RESIDENT                        * 74520025
                                 17231+*                                                                  * 74610025
                                 17232+* CHARACTER CODE DEPENDENCY  NOT APPLICABLE                        * 74700025
                                 17233+*                                                                  * 74790025
                                 17234+* NOTES                                                            * 74880025
                                 17235+*    REGISTER USAGE                                                * 74970025
                                 17236+*         R1       ADDRESS OF THE CCB                              * 75060025
                                 17237+*         R3       ADDRESS OF THE PUB                              * 75150025
                                 17238+*         R5       ADDRESS OF THE ERPIB                            * 75330028
                                 17239+*         R7       ERROR COUNTER                                   * 75420025
                                 17240+*         R9       LINK/EXIT                                       * 75510025
                                 17241+*         R10      ADDRESS OF THE PIB                              * 75600025
                                 17242+*                                                                  * 75690025
                                 17243+*                                                                  * 75780025
                                 17244+*                                                                  * 75870025
                                 17245+*-----------------------------------------------------------------* 75960025
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C812 9602 5014      00014       17247+CCDASDE  OI    ERPIBFLG,CCDASDB . SET DASD ERPIB ACTIVE             513 77220028
00C816 D300 5013 4007 00013 00007 17248+         MVZ   ERPIBREQ(L1),TKREQID SAVE THE REQUESTORS ID             77400028
00C81C 9101 1002      00002       17249+         TM    CCBCOM1,OWNUCRT    USER ERROR ROUTINE ?         @DY14881 77450034
00C820 4780 F5B2      0C82C       17250+         BZ    CCDASDRT           NO                           @DY14881 77500034
00C824 9101 1003      00003       17251+         TM    CCBCOM2,CHNBIT     COMMAND CHAINING BIT ON ?    @DY14881 77550034
00C828 4710 F5F2      0C86C       17252+         BO    CCDASDCK           YES, DO NOT RETRY            @DY14881 77600034
                                  0C82C 17253+CCDASDRT EQU   *                                          @DY14881 77650034
00C82C 4370 5010                  00010 17254+         IC    R7,ERPIBCQP .      PICK UP THE RETRY COUNT           77850028
00C830 4177 0001                  00001 17255+         LA    R7,D1(R7) .        UPDATE THE COUNT                  77940028
00C834 4270 5010                  00010 17256+         STC   R7,ERPIBCQP .      STORE BACK THE UPDATED COUNT      78030028
00C838 950A 5010      00010       17257+         CLI   ERPIBCQP,DASDCCL . HAS THE RETRY COUNT BEEN EXHAUSTED  78120028
00C83C 4720 F5F2      0C86C       17258+         BH    CCDASDCK .         YES  GO TO CANCEL CHECK           78210028
00C840 9601 0819      00819       17259+         OI    RASFLAGS,RTAIOA .  INDICATE RETRY IN PROCESS    @DM01281 78386028
00C844 9102 0819      00819       17260+         TM    RASFLAGS,CCSIOB .  IS THE CHANNEL CHECK ON SIO BIT ON    78386728
00C848 47E0 F5E6      0C860       17261+         BNO   CCDASDI .          NO  CHANNEL CHECK WAS ON INTERRUPT  78390028
00C84C 94FD 0819      00819       17262+         NI    RASFLAGS,XFF-CCSIOB RESET THE CHANNEL CHECK ON SIO BIT 78480028
00C850 4820 3000                  00000 17263+         LH    R2,PUBCHANN .      RELOAD THE DEVICE ADDRESS FOR SIO 78930028
                                  00000 17264+         USING SYSS00,R0,RB .     DECLARE THE SYSTEM BASES     @D34RDFG 79110034
00C854 5870 1008                  00008 17265+         L     R7,CCBCCW .        SET UP CCWPTR R7             @DA01616 79160029
00C858 58D0 0884                  00884 17266+         L     RD,IOSBASE         LOAD BASE OF EXCP ROUTINES   @D34RDFG 79170034
                                  0D1B4 17267+         USING SGIOS,RD                                        @D34RDFG 79180034
00C85C 47F0 D7F8      0D9AC       17268+         B     STRTIO  .          GO TRY AGAIN                 @DM03777 79200028
                                  17269+         DROP  RD .               RELEASE EXCP BASE            @D34RDFG 79240034
                                  17270+         DROP  RB .               DROP SYSTEM BASE REGISTERS   @D34RDFG 79290034

                                  0C860 17272+CCDASDI  EQU   *                                                  79560025
00C860 947F 3006      00006       17273+         NI    PUBCSFLG,XFF-DEVBSY RESET THE BUSY BIT IN THE PUB       79650028
00C864 5850 086C                  0086C 17274+         L     R5,DISPAD          SET UP EXIT ADDRESS       @DM05356 79700033
00C868 47F0 98A2      0377C       17275+         B     INITSIO .          REISSUE THE REQUEST                   79830028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          0C86C 17277+CCDASDCK EQU   *                                                        80010025
00C86C 9507 4004      00004       17278+         CLI   REQID,FETCHID .    IS THIS A FETCH OPERATION    @DS28005 81720028
00C870 4780 F10E      0C388       17279+         BE    EMGEX8 .           YES GO TERMINATE THE SYSTEM           81810028
00C874 9504 4004      00004       17280+         CLI   REQID,PMREQID .    PAGING REQUEST                    JW 81812028
00C878 4780 F0FC      0C376       17281+         BE    EMGEX0 .           YES,TERMINATE SYSTEM              JW 81814028
00C87C 9509 4004      00004       17282+         CLI   REQID,CRT .        HARD COPY OPERATION          @DM02617 81815628
00C880 4780 F63E      0C8B8       17283+         BE    CCDASDHC .         YES, GO HANDLE HC            @DM02617 81816428
00C884 9503 4004      00004       17284+         CLI   REQID,RASID .      IS IT A RAS REQ.             @DS28005 81820028
00C888 4770 F61A      0C894       17285+         BNE   CCDASDTC .         NOT RAS                      @DS28005 81830028
00C88C 9505 F6EA      0C964       17286+         CLI   RTAID,RASFCHID .   IF RAS, IS IT RASFETCH       @DS28005 81840028
00C890 4780 F10E      0C388       17287+         BE    EMGEX8 .           YES TERMINATE SYSTEM         @DS28005 81850028

00C894 94FD 5014      00014       17289+CCDASDTC NI    ERPIBFLG,XFF-CCDASDB DEACTIVATE DASD ERPIB                82440028
00C898 1BAA                       17290+         SR    RA,RA .            CLEAR THE PIB REG                     82620028
00C89A 43A0 4007            00007 17291+         IC    RA,TKREQID .       GET REQUESTORS ID                     82800028
00C89E 4AA0 06AA            006AA 17292+         AH    RA,YPIBTAB .       POINT AT THE PROPER PIB               83250028
00C8A2 94FD 0819      00819       17293+         NI    RASFLAGS,XFF-CCSIOB TURN OFF THE START I/O BIT            83880028
00C8A6 94FE 100C      0000C       17294+         NI    CCBBY3,XFF-SKSEP   RESET SEEK OVERLAP BIT      @D347DAZ 84020034
00C8AA D601 1004 0044 00004 00044 17295+         OC    CCBSTA(L2),DEVSTA  CSW INFO TO CCB               @DY14881 84030034
00C8B0 9110 1002      00002       17296+         TM    CCBCOM1,ACCUNRIO   DOES USER ACCEPT I/O ERROR   @D34SDAZ 84040034
00C8B4 4780 0A3C      00A3C       17297+         BZ    ERR1B .            NO, GO CANCEL THIS TASK       @D34SDAZ 84060034
                          0C8B8 17298+CCDASDHC EQU   * .                 CCH ON HARDCOPY DEVICE        @DM01473 84061228
00C8B8 9620 1002      00002       17299+         OI    CCBCOM1,DISERR .   POST ERROR                    @DM02617 84061628
00C8BC 47F0 9352      0322C       17300+         B     TRNOFF .           POST AND DEQUEUE              @DM02617 84062428
                                  17301+         DROP  R5                                                   LDR 84110028
                                  17302+*                                                                  84200028
                                  17303+**       MCRAS EQUATES AND CONSTANTS                               84210028
                                  17304+*                                                                  84220028
00C8C0 0008                       17305+RASHW8   DC    H'8' .             TO CALCULATE WAIT CODE            JW 84270028
00C8C2 0000
00C8C4 00000000                   17306+CSWTRSAV DC    F'0' .             SAVE AREA FOR LINKAGE REG.    @DS28005 84320028
                          0C8C4 17307+RASAVE8  EQU   CSWTRSAV .           SAME AREA USED TWICE          @DM00212 84321028
                          0003F 17308+CHNERR   EQU   X'3F'                MASK FOR CHANNEL ERROR        @D34SDSK 84341034
                          00003 17309+DEVERR   EQU   X'03'                MASK FOR DEVICE ERROR         @D34SDSK 84351034
00C8C8 00000000                   17310+CCSAVE3  DC    F'0'               TEMP.SAVEAREA FOR PUB PT      @DF00928 84370028
00C8CC 00000000                   17311+CCSAVE4  DC    F'0'               TEMP.SAVEAREA FOR CHQ.PT      @DF00928 84380028
00C8D0 00000000                   17312+CCSAVE5  DC    F'0'               TEMP.SAVEAREA FOR ERPIB PT    @DF00928 84390028
00C8D4 00000000
00C8D8 0400C8D820000006           17313+CCSENCCW CCW   4,*,X'20',6 .      RAS SENSE CCW                         84420028

00C8E0                            17315+RASTAB   DS    0D .               FORCE BOUNDARY                        84510028
00C8E0                            17316+RASTTR   DS    0F .               SEEK ADDRESS OF MODULES               84600028
00C8E0 00000000                   17317+LD00SLOT DC    F'0' .             LOAD 0 FLAGS AND CHR                  84690028
00C8E4 00000000                   17318+LD01SLOT DC    F'0' .             LOAD 1 FLAGS AND CHR                  84780028
00C8E8 00000000                   17319+LD02SLOT DC    F'0' .             LOAD 2 FLAGS AND CHR                  84870028
00C8EC 00000000                   17320+LD03SLOT DC    F'0' .             LOAD 3 FLAGS AND CHR                  84960028
00C8F0 00000000                   17321+LD04SLOT DC    F'0' .             LOAD 4 FLAGS AND CHR                  85050028
00C8F4 00000000                   17322+LD05SLOT DC    F'0' .             LOAD 5 FLAGS AND CHR                  85140028
00C8F8 00000000                   17323+LD06SLOT DC    F'0' .             LOAD 6 FLAGS AND CHR                  85230028
00C8FC 00000000                   17324+LD07SLOT DC    F'0' .             LOAD 7 FLAGS AND CHR                  85320028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C900 00000000                   17325+LD08SLOT DC    F'0' .              LOAD 8 FLAGS AND CHR                    85410028
00C904 00000000                   17326+LD09SLOT DC    F'0' .              LOAD 9 FLAGS AND CHR                    85500028
00C908 00000000                   17327+LD10SLOT DC    F'0' .              LOAD 10 FLAGS AND CHR                   85590028
00C90C 00000000                   17328+LD11SLOT DC    F'0' .              LOAD 11 FLAGS AND CHR                   85680028
00C910 00000000                   17329+LD12SLOT DC    F'0' .              LOAD 12 FLAGS AND CHR                   85730028
00C914 00000000                   17330+LD13SLOT DC    F'0' .              LOAD 13 FLAGS AND CHR                   85740028
00C918 00000000                   17331+LD14SLOT DC    F'0' .              LOAD 14 FLAGS AND CHR                   85750028
00C91C 00000000                   17332+LD15SLOT DC    F'0' .              LOAD 15 FLAGS AND CHR                   85760028
                         0C920    17333+LDXXSLOT EQU   * .                 END OF LOAD SLOTS                       85762028
00C920 0000                       17334+RASCCB   DC    H'0' .              RESIDUAL COUNT                          85770028
00C922 0000                       17335+RASTIB   DC    H'0' .              TRANSMISION INFORMATION                 85860028
00C924 0000                       17336+         DC    H'0' .              CSW STATUS BYTES                        85950028
00C926 0006                       17337+         DC    H'6' .              SYSRES LUB                              86040028
00C928 00                         17338+RASCCBF  DC    X'00' .             RAS CCB INDICATOR                       86130028
00C929 00C930                     17339+         DC    AL3(RASCCWS) .      ADDRESS OF RAS FETCH CCWS               86220028
00C92C 00000000                   17340+         DC    2H'0' .             CCW STORED ADDRESS                      86310028
                         0C930    17341+RASCCWS  EQU   *                                                       86400025
00C930 0700C95040000006           17342+         CCW   7,RASEEK,X'40',6 .  RAS SEEK CCW                            86490028
00C938 3100C95240000005           17343+RASRCG   CCW   49,RASEEK+2,X'40',5  RAS SEARCH CCW                        86580025
00C940 0800C93860000001           17344+RASTIC   CCW   8,RASRCG,X'60',1 .   TIC CCW                               86670028
00C948 0600CA7820000384           17345+RASREAD  CCW   6,RTA,X'20',900 .    READ MODULE INTO THE RTA     @DM01039 86760028
00C950 00000000000000             17346+RASEEK   DC    7X'00' .            SEEK ADDRESS                            86850028
00C957 FF                         17347+RTAOWN   DC    X'FF' .             INDEX INTO TTR TABLE OF OWNER           86940028
00C958 0010                       17348+MCPIK    DC    H'16' .             PIK OF THE INTERRUPED TASK              87120028
00C95A 0010                       17349+MCTIK    DC    H'16' .             TIK OF THE INTERRUPTED TASK       JW    87170028
00C95C 0000CA14                   17350+ERPIBA   DC    AL4(ERPIBQ) .       ADDRESS OF ERPIB QUEUE       @DM01237 87640028
00C960 0000C4F6                   17351+CCENTADR DC    AL4(CCENTRY1) .     ADDRESS OF CHANNEL CHECK RTN @DM01237 87710028
00C964                            17352+RTAID    DS    X .                 ID FOR RTA I/O REQUEST       @DM01780 87760028
00C965                            17353+ERPID    DS    X .                 RETURN LOAD INDEX FOR WTOR   @DM01780 87810028
00C966 0000                       17354+RASRES   DC    H'0' .              I/O ADDRESS OF SYSRES                   87930028
00C968 0000                       17355+RASREC   DC    H'0' .              I/O ADDRESS OF SYSREC                   88020028
00C96A 0000                       17356+RASLOG   DC    H'0' .              DEVICE ADDRESS OF SYSLOG                88110028
                                  17357+*                                                                       88295028
00C96C                            17358+TRANSAV  DS    0F .                RTA REGISTER SAVE AREA            HL    88300028
00C96C 00000000                   17359+TRANSAV0 DC    F'0' .              REG0                              HL    88305028
00C970 00000000                   17360+TRANSAV1 DC    F'0' .              REG1                              HL    88307528
00C974 00000000                   17361+TRANSAV2 DC    F'0' .              REG2                              HL    88310028
00C978 00000000                   17362+TRANSAV3 DC    F'0' .              REG3                              HL    88312528
00C97C 00000000                   17363+TRANSAV4 DC    F'0' .              REG4                              HL    88315028
00C980 00000000                   17364+TRANSAV5 DC    F'0' .              REG5                              HL    88317528
00C984 00000000                   17365+TRANSAV6 DC    F'0' .              REG6                              HL    88320028
00C988 00000000                   17366+TRANSAV7 DC    F'0' .              REG7                              HL    88322528
00C98C 00000000                   17367+TRANSAV8 DC    F'0' .              REG8                              HL    88325028
00C990 00000000                   17368+TRANSAV9 DC    F'0' .              REG9                              HL    88327528
00C994 00000000                   17369+TRANSAVA DC    F'0' .              REGA                              HL    88330028
00C998 00000000                   17370+TRANSAVB DC    F'0' .              REGB                              HL    88332528
00C99C 00000000                   17371+TRANSAVC DC    F'0' .              REGC                              HL    88335028
00C9A0 00000000                   17372+TRANSAVD DC    F'0' .              REGD                              HL    88337528
00C9A4 00000000                   17373+TRANSAVE DC    F'0' .              REGE                              HL    88340028
00C9A8 00000000                   17374+TRANSAVF DC    F'0' .              REGF                              HL    88342528
                                  17375+*                                                                       88345028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00C9AC                           17376+SYSREGS  DS    0F .                 SYSTEM REGISTER SAVE FOR RTA       HL 88347528
00C9AC 00000000                  17377+SYSREG0  DC    F'0' .               REG0                               HL 88350028
00C9B0 00000000                  17378+SYSREG1  DC    F'0' .               REG1                               HL 88352528
00C9B4 00000000                  17379+SYSREG2  DC    F'0' .               REG2                               HL 88355028
00C9B8 00000000                  17380+SYSREG3  DC    F'0' .               REG3                               HL 88357528
00C9BC 00000000                  17381+SYSREG4  DC    F'0' .               REG4                               HL 88360028
00C9C0 00000000                  17382+SYSREG5  DC    F'0' .               REG5                               HL 88362528
00C9C4 00000000                  17383+SYSREG6  DC    F'0' .               REG6                               HL 88365028
00C9C8 00000000                  17384+SYSREG7  DC    F'0' .               REG7                               HL 88367528
00C9CC 00000000                  17385+SYSREG8  DC    F'0' .               REG8                               HL 88370028
00C9D0 00000000                  17386+SYSREG9  DC    F'0' .               REG9                               HL 88372528
00C9D4 00000000                  17387+SYSREGA  DC    F'0' .               REGA                               HL 88375028
00C9D8 00000000                  17388+SYSREGB  DC    F'0' .               REGB                               HL 88377528
00C9DC 00000000                  17389+SYSREGC  DC    F'0' .               REGC                               HL 88380028
00C9E0 00000000                  17390+SYSREGD  DC    F'0' .               REGD                               HL 88382528
00C9E4 00000000                  17391+SYSREGE  DC    F'0' .               REGE                               HL 88385028
00C9E8 00000000                  17392+SYSREGF  DC    F'0' .               REGF                               HL 88387528
                                 17393+*                                                                      88390028
00C9EC 00                        17394+LINKFLAG DC    X'00' .              MESSAGE AREA                       HL 88392528
00C9ED 00CE60                    17395+SUPLINK  DC    AL3(RASTSCAN) .      PTR TO RAS SYSTEM FUNCTION SCAN    HL 88395028
                                 17396+*                                                                      HL 88400028
                          00080  17397+RASLIO   EQU   X'80' .               RTA NORMAL I/O REQUEST             HL 88402528
                          00040  17398+RASLEMIO EQU   X'40' .               RTA EMERGENCY I/O REQUEST          HL 88405028
                          000C0  17399+RASLREST EQU   X'C0' .               RTA RESTART I/O REQUEST            HL 88407528
                          00020  17400+RASLFTCH EQU   X'20' .               RTA FETCH REQUEST                  HL 88410028
                          00010  17401+RASLEXIT EQU   X'10' .               RTA SIMULATED WAIT              @D34DDAZ 88412534
                          00090  17402+RASLWAIT EQU   X'90' .               RTA EXIT                           HL 88415028
                          00008  17403+RASLREGS EQU   X'08' .               RTA INIT REGS FOR I/O POINTERS     HL 88417528
                          00004  17404+RASLDEQ  EQU   X'04' .               RTA DEQUEUE CCB                    HL 88420028
                          00002  17405+RASLCAN  EQU   X'02' .               RTA CANCEL TASK                    HL 88422528
                          00001  17406+RASLTIME EQU   X'01' .               RTA SIMULATED SVC34             @D34DDAZ 88425034
                                 17407+*                                                                      88740028
00C9F0                           17408+HIR      DS    0CL12 .              HARDWARE INSTR. RETRY ACCUMULATOR  88830028
00C9F0 0000                      17409+HIRACNT  DC    H'0' .               ACCUMULATED HIR COUNT              88920028
00C9F2 0008                      17410+HIRLCNT  DC    H'8' .               THRESHOLD VALUE FOR COUNT          89010028
00C9F4 00000000                  17411+HIR1TME  DC    F'0' .               TIME OF DAY FOR FIRST ERROR OF GROUP 89100028
00C9F8 00006B48                  17412+HIRLTME  DC    F'27464' .           TIME THRESHOLD IN CLOCK UNITS      89190028
                                 17413+*                                                                      89280028
00C9FC                           17414+ECCMAIN  DS    0CL12 .              MAIN STORAGE ERROR ACCUMULATORS    89370028
00C9FC 0000                      17415+ECMACNT  DC    H'0' .              ACCUMULATED ECC COUNT FOR MAIN STORAGE 89460028
00C9FE 0010                      17416+ECMLCNT  DC    H'16' .              INITIAL THRESHOLD COUNT            89550028
00CA00 00000000                  17417+ECM1TME  DC    F'0' .               TIME OF DAY FOR FIRST ERROR OF GROUP 89640028
00CA04 00006B48                  17418+ECMLTME  DC    F'27464' .           TIME THRESHOLD IN CLOCK UNITS      89730028
                                 17419+*                                                                      89820028
00CA08 0000370E                  17420+RESTARTA DC    A(INITRG1) .         DISK RESTART ADDRESS               HL 89910028
00CA0C 0000                      17421+RESTARTP DC    H'0' .               PUB ADDRESS OF UNIT TO BE RESTARTED 90000028
00CA0E 92                        17422+MCMODE   DC    X'92' .              INITIAL MODE SETTING               90090028
00CA0F 00                        17423+BUFDEL   DC    X'00' .              COUNT OF BUFFERS DELETED           90180028
00CA10 00                        17424+RASMSG1  DC    X'00' .              MESSAGE BYTE 1                     90270028
00CA11 00                        17425+RASMSG2  DC    X'00' .              MESSAGE BYTE 2                     90360028
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00CA14                           17427+ERPIBQ   DS    0F .              ERPIB QUEUE                              90630028
00CA14 FE                        17428+ERPIB    DC    X'FE' .           FIRST ERPIB                  @DM03776    90720028
00CA15 0000000000000000          17429+         DC    23X'00' .         REST OF ERPIB                @DM03776    90770028

00CA2C FE                        17431+ERPIB2   DC    X'FE' .           ADDITIONAL ERPIB                         91710028
00CA2D 0000000000000000          17432+         DC    23X'00' .         REST OF ERPIB                            91800028

00CA44 FE                        17434+ERPIB3   DC    X'FE' .           ADDITIONAL ERPIB                         91890028
00CA45 0000000000000000          17435+         DC    23X'00' .         REST OF ERPIB                            91980028

00CA5C FE                        17437+ERPIB4   DC    X'FE' .           ADDITIONAL ERPIB                         92070028
00CA5D 0000000000000000          17438+         DC    23X'00' .         REST OF ERPIB                            92160028

00CA74 FF                        17440+ERPIBN   DC    X'FF' .           END OF ERPIBS FLAG                       92250028
                                 17441+*                                                                         92260028
00CA75 00                        17442+RASDUMMY DC    X'00' .           DUMMY BYTE FOR SYSTEM MASK           HL  92300028
                         00060   17443+EXLOGL   EQU   96 .              MAXIMUM CHANNEL LOG LENGTH               92340028
                         002C0   17444+EXLOGB   EQU   DLOGOUT+192 .     CHANNEL LOG OUT BUFFER                   92430028
                         00320   17445+EXLOG1   EQU   EXLOGB+EXLOGL .    ADDRESS OF CHANNEL LOG FOR ERPIB 1       92520028
                                 17446+*                                                                         92570028
00CA78                           17447+RTA      DS    0D .              FORCE ALIGNMENT                          92700028
00CA78                           17448+         DS    CL1000 .          RAS TRANSIENT AREA                       92790028
                                 17449+*                                                                         92840028
                         0CA82   17450+RTAENTRY EQU   RTA+10 .          ENTRY POINT OF RTA                       92880028
                         00001   17451+NPBIT    EQU   X'01' .           NON-PRIVILEGED BIT IN MC OLD PSW         92970028
                         00004   17452+MCHARD   EQU   X'04' .           MACHINE CHECK IS HARD                    93060028
                         00004   17453+MCEXIT   EQU   X'04' .           SPECIAL EXIT BIT                         93150028
                         00080   17454+RASACT   EQU   X'80' .           RAS ACTIVE                           JW  93250028
                         00040   17455+RASIO    EQU   X'40' .           RESERVED                     @D34SDAZ    93330034
                         00020   17456+RTAINC   EQU   X'20'                                                     93420025
                         00010   17457+RASIOD   EQU   X'10' .           RAS I/O DELAYED BIT                      93510025
                         00008   17458+CCERRBIT EQU   X'08' .           RESERVED                     @D34SDAZ    93600034
                         00004   17459+CCINITRG EQU   X'04' .           CCH WANTS REGS TO BE INIT.   @DS28005    93650028
                         00002   17460+CCSIOB   EQU   X'02' .           RAS ENTERED FROM CSWSTORD                93690028
                         00001   17461+RTAIOA   EQU   X'01' .           RTA HAS I/O RUNNING                      93780028
                         00000   17462+LOAD00   EQU   0                                                         93870025
                         00010   17463+NONOPR   EQU   X'10' .           CHANNEL NOT OPERATIONAL CODE             93960028
                         00000   17464+LOWCORE  EQU   X'00'                                                     94050025
                         000C0   17465+SYSRST   EQU   X'C0' .           SYSTEM RESET CODE                        94140028
                         00008   17466+RASFIN   EQU   X'08' .           RAS HAS FINISHED WRITING M.C. RECORDS    94230028
                         00080   17467+ACTLOAD  EQU   X'80'                                                     94320025
                         000FF   17468+NOCHAN   EQU   X'FF'                                                     94410025
                         000FE   17469+FRENT    EQU   X'FE' .           FREE ERPIB ENTRY CODE                    94500028
                         00040   17470+ERPIBALT EQU   X'40'             ERROR ON ALTERNATE CHANNEL   @DY15997    94540034
                         00040   17471+MCACT    EQU   X'40' .           MACHINE CHECK ROUTINE ACTIVATED          94590028
                         00020   17472+CCACT    EQU   X'20' .           CHANNEL CHECK ROUTINE ACTIVATED          94680028
                         00008   17473+EMGEXIT  EQU   X'08' .           EMERGENCY EXIT BIT                       94770028
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00010 17474+INVLIST  EQU   X'10' .          ACTIVE I/O LIST IS INVALID            94860028
                          00004 17475+CCSNS    EQU   X'04' .          SENSE DATA STORED                     94950028
                          000FB 17476+CRGCODE  EQU   X'FB' .          CHANNEL RETRY GOOD CODE               95220028
                          000FA 17477+UNCCODE  EQU   X'FA' .          UNIT CHECK ON CHANNEL RETRY CODE      95310028
                          000FC 17478+CHNCODE  EQU   X'FC' .          CHANNEL CHECK CODE                    95400028
                          00000 17479+NOMSG    EQU   X'00'                                                95490025
                          00005 17480+RASFCHID EQU   X'05' .          ID FOR A RAS FETCH OPERATION          95670028
                          00006 17481+RASRTYID EQU   X'06' .          CHANNEL RETRY REQUEST ID              95760028
                          00080 17482+CCSIOFLG EQU   X'80' .          CHANNEL CHECK ON SIO FLAG             95850028
                          0000A 17483+DASDCCL  EQU   10 .             RETRY LIMIT FOR DASD CHANNEL CHECK    95940028
                          00045 17484+T145     EQU   X'45' .          MODEL 145 ID                          96030028
                          00048 17485+T148     EQU   X'48'            MODEL 148 ID                @D33RDSK  96070033
                          00055 17486+T155     EQU   X'55' .          MODEL 155 ID                          96120028
                          00020 17487+RAST10IO EQU   X'20' .          RAS MSG WRITER HAS I/O SCHEDULED      96210028
                          00000 17488+LTAID    EQU   X'00' .          LTA REQUEST ID                        96300028
                          000C1 17489+EMGCODE  EQU   193 .            EMERGENCY CODE FACTOR                 96390028
                          0001E 17490+RAS30    EQU   30 .             LENGTH FOR MOVE                       96440028
                          000E6 17491+RAS230   EQU   230 .            LENGTH FOR MOVE                       96450028
                          000FA 17492+RAS250   EQU   250 .            LENGTH FOR MOVE                       96460028
                          00200 17493+CCBUFFER EQU   512 .            CHANNEL BUFFER FOR 135/138  @D33RDSK  96465033
                          00001 17494+BUFBIT   EQU   X'01' .          BUFFERED LOG BIT IN ERPIB             96472028
                          00004 17495+CCBUFBIT EQU   X'04' .          CHANNEL CHECK BUFFER IN USE           96474028
                          00002 17496+CCDASDB  EQU   X'02' .          DASD ERPIB ACTIVE BIT                 96480028
                          00080 17497+ECSWST   EQU   X'80' .          ECSW STORED TEST BIT                  96540028
                          00004 17498+LOGPEND  EQU   X'04' .          LOG OUT IS PENDING                    96550028
                          00007 17499+RASDW    EQU   X'07' .          DOUBLE WORD MASK                      96564028
                          00001 17500+RMSBIT   EQU   X'01' .          CONFIG-FLAG IF RAS INIT COMPLETE   HL 96564528
                          000E9 17501+RASZERO  EQU   C'Z' .           $$RAST00 IS IN CORE          @DM00124 96565028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  17503+*-------------------------------------------------------------------* 96581034
                                  17504+****     RTA FUNCTION SCAN     ****                                 * 96581434
                                  17505+*-------------------------------------------------------------------* 96582034

00CE60                            17507+         DS    0H .                ALIGNE                          HL 96586228
                           0CE60  17508+RASTSCAN EQU   * .                 RTA FUNCTION SCAN               HL 96588028
                           0C8E0  17509+         USING RASTAB,R1 .         DECLARE BASE                    HL 96589828
00CE60 900F 108C           0C96C  17510+         STM   R0,RF,TRANSAV .     SAVE RTA REGISTERS              HL 96591628
00CE64 980D 10CC           0C9AC  17511+         LM    R0,RD,SYSREGS .     GET RESIDENT POINTERS           HL 96593428
                           00000  17512+         USING CCBADR,R1 .         RESTORE STANDARD ADDRESSABILITY INT 96595228
00CE68 58F0 0820           00820  17513+         L     RF,RASBASE .        LOAD POINTER TO RAS CODING      HL 96597028
00CE6C 9510 F772      0C9EC       17514+         CLI   LINKFLAG,RASLEXIT .IS REQUEST FOR EXIT              HL 96598828
00CE70 4780 FDCA      0D044       17515+         BE    RASIPLR .           YES,DO THIS FUNCTION            HL 96600628
00CE74 4740 FC22      0CE9C       17516+         BL    RASTREG .           NO,SCAN OTHER FUNCTIONS         HL 96602428
00CE78 9590 F772      0C9EC       17517+         CLI   LINKFLAG,RASLWAIT .IS REQUEST FOR WAIT               HL 96604228
00CE7C 4780 FC52      0CECC       17518+         BE    RASWAITR .          YES,DO THIS FUNCTION            HL 96606028
00CE80 95C0 F772      0C9EC       17519+         CLI   LINKFLAG,RASLREST .RESTART REQUEST                   HL 96607828
00CE84 4780 FC46      0CEC0       17520+         BE    RASTART .           YES,RESTART CHANNEL             HL 96609628
00CE88 9580 F772      0C9EC       17521+         CLI   LINKFLAG,RASLIO .  NORMAL I/O REQUEST              HL 96611428
00CE8C 4780 FC74      0CEEE       17522+         BE    RASIOREQ .          YES,DO I/O                      HL 96613228
00CE90 9540 F772      0C9EC       17523+         CLI   LINKFLAG,RASLEMIO .EMERGENCY I/O                    HL 96615028
00CE94 4780 FD1A      0CF94       17524+         BE    RASEMGIO .          YES, TAKE EMERGENCY ROUTINE     HL 96616828
00CE98 47F0 FCB0      0CF2A       17525+         B     RASFETCH .          REQUEST MUST BE FETCH           HL 96618628

00CE9C 9508 F772      0C9EC       17527+RASTREG  CLI   LINKFLAG,RASLREGS .INITIALIZE REGISTERS FOR I/O       HL 96622528
00CEA0 4780 FCEE      0CF68       17528+         BE    RASINITR .          YES,SET UP POINTERS             HL 96625028
00CEA4 9504 F772      0C9EC       17529+         CLI   LINKFLAG,RASLDEQ . DEQUEUE A CCB                    HL 96627528
00CEA8 4780 FCBC      0CF36       17530+         BE    RASDEQUE .          YES                             HL 96630028
00CEAC 9502 F772      0C9EC       17531+         CLI   LINKFLAG,RASLCAN . CANCEL FOR PARTITION            HL 96632528
00CEB0 4780 FC7C      0CEF6       17532+         BE    RASCANCL .          YES,CANCEL ROUTINE              HL 96635028
00CEB4 9501 F772      0C9EC       17533+         CLI   LINKFLAG,RASLTIME .GETIME REQUEST                   HL 96637528
00CEB8 4780 FD0A      0CF84       17534+         BE    RASTIMER .          YES,SIMULATE GETIME       @D34DDAZ 96640034
00CEBC 47F0 FDCA      0D044       17535+         B     RASIPLR .           REQUEST MUST BE COMPLETION      HL 96642528
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  17537+*              ROUTINE TO RESTART A CHANNEL                          HL 96647528
                                  17538+*              R3 POINTS TO DAMAGED PUB                              HL 96650028
00CEC0 9200 F772      0C9EC       17539+RASTART  MVI   LINKFLAG,ZERO .    CLEAR FLAG BYTE                       96652528
00CEC4 5890 070C            0070C 17540+         L     R9,AINTER .        SET BASE FOR IOINTER                  96654528
00CEC8 47F0 9834      0370E       17541+         B     INITRG1 .          RESTART THE CHANNEL                   HL 96655028



                                  17543+*              ROUTINE WHICH SIMULATES A WAIT BY RETURNING TO  @D34DDAZ 96657534
                                  17544+*              THE CALLING ROUTINE.                                  HL 96658028
00CECC 9200 F772      0C9EC       17545+RASWAITR MVI   LINKFLAG,ZERO .    CLEAR THE FLAG BYTE                   96659028
00CED0 4110 083E            0083E 17546+         LA    R1,ZEROBYTE-D2 .   POINT TO DUMMY CCB                   96659228
00CED4 9640 073A      0073A       17547+         OI    SYSFLAG3,WAITRAS . INDICATE RAS WAIT                  HL 96660028
00CED8 BF7F 075C            0075C 17548+         ICM   R7,RF,RFTABAD .    GET PTR TO RFTABLE                    US 96662228
                            137D8 17549+         USING RFTABLE,R7 .       DECLARE BASE                          HL 96663628
00CEDC 9103 7001      137D9       17550+         TM    RFFLAGS2,RFPTAOWN+RFEREP IS SYSREC FREE                  HL 96665428
                                  17551+         DROP  R7 .               DROP TEMP BASE                        HL 96667228
00CEE0 4780 FC6C      0CEE6       17552+         BZ    RASWTR2  .         GO , TO RESET RASWAIT           @DA08974 96669034
00CEE4 0A07                       17553+         SVC   WAIT .             ISSUE WAIT                            HL 96670828
00CEE6 94BF 073A      0073A       17554+RASWTR2  NI    SYSFLAG3,XFF-WAITRAS RESET WAITRAS                  @DA08974 96671434
00CEEA 47F0 FDDE      0D058       17555+         B     RTARETRN            GO , TO RTA                     @DA08974 96672034



                                  17557+*              ROUTINE WHICH HANDLES AN I/O REQUEST                  HL 96674428
                                  17558+*              THE RTACCB HAS BEEN SET UP BEFORE                     HL 96676228
00CEEE 9200 F772      0C9EC       17559+RASIOREQ MVI   LINKFLAG,ZERO .    CLEAR THE FLAG BYTE                   96678028
00CEF2 47F0 F180      0C3FA       17560+         B     RASIOR .           USE THE GENERAL RAS ROUTINE           HL 96679828



                                  17562+*              ROUTINE WHICH INITIATES A CANCEL FUNCTION             HL 96683428
                                  17563+*              R8 CONTAINES CANCEL CODE AND RA PIB POINTER      @DM03776 96685228
00CEF6 9200 F772      0C9EC       17564+RASCANCL MVI   LINKFLAG,ZERO .    CLEAR THE FLAG BYTE                   96687028
00CEFA 58A0 F71A            0C994 17565+         L     RA,TRANSAVA        GET PIB POINTER                 @DY13326 96687634
00CEFE 4BA0 0BDE            00BDE 17566+         SH    RA,PIBDIFF         POINT TO PIB2                   @DY13326 96688234
00CF02 48A0 A000            00000 17567+         LH    RA,PIBCOMRA        GET COMREG. ADDRESS             @DY13326 96688834
00CF06 9120 A0A4      000A4       17568+         TM    164(RA),POWERACT   POWER PARTITION                 @DY13326 96689434
00CF0A 4780 FC98      0CF12       17569+         BZ    NOTPWRVS           NO , NORMAL PARTITION           @DY13326 96690034
00CF0E 47F0 FDDE      0D058       17570+         B     RTARETRN           RETURN                          @DY13326 96690634
                            0CF12 17571+NOTPWRVS EQU   *                                                 @DY13326 96691234
00CF12 58B0 F712            0C98C 17572+         L     RB,TRANSAV8 .      GET CANCEL CODE                       HL 96692428
00CF16 58A0 F71A            0C994 17573+         L     RA,TRANSAVA .      AND PIB POINTER                 @DM03705 96694228
00CF1A 45F0 0A5E            00A5E 17574+         BAL   RF,ERRGO .         CANCEL DAMAGED PARTITION        @DM03031 96697828
00CF1E 9601 A000      00000       17575+         OI    PIBFLG,IOCMPL      POST TASK READY                 @D34SDAZ 96698234
00CF22 58F0 0820            00820 17576+         L     RF,RASBASE .       RESTORE BASEREG                 @DM03705 96698534
00CF26 47F0 FDDE      0D058       17577+         B     RTARETRN .         RETURN TO RTA                   @DM03031 96698628



                                  17579+*              ROUTINE THAT CAUSES A RTA FETCH                       HL 96701428
                                  17580+*              R3 HAS THE INDEX NUMBER OF THE RTA PHASE TO BE CALLED HL 96703228
00CF2A 41C0 F7FE            0CA78 17581+RASFETCH LA    RC,RTA .           SET POINTER TO RTA                    HL 96705028
00CF2E 5830 F6FE            0C978 17582+         L     R3,TRANSAV3 .      GET R3 FROM RTA                       HL 96706828
00CF32 47F0 F164      0C3DE       17583+         B     CALLRTA .          GO TO GENERAL RTA-FETCH               HL 96708628
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  17585+*              ROUTINE TO DEQUEUE A CCB                                HL 96712228
                                  17586+*              R3 POINTS TO THE PUB                                    HL 96714028
                           0CF36  17587+RASDEQUE EQU   * .                                                  @DM00219 96716228
00CF36 5830 F6FE                  0C978 17588+         L     R3,TRANSAV3 .      GET R3 FROM RTA                HL 96717628
00CF3A 4580 F430                  0C6AA 17589+         BAL   R8,RASDEQ .        USE GENERAL RAS ROUTINE        HL 96719428
00CF3E D501 3000 07DC 00000 007DC 17590+         CLC   PUBCHANN,SYSOCDEV  OPERATOR CONSOLE                @DY14188 96719834
00CF44 4770 FCE6      0CF60       17591+         BNE   NOOCDEQ            NO OPERATOR CONSOLE DEQ        @DY14188 96719934
00CF48 9509 4004      00004       17592+         CLI   REQID,CRT          CRT REQUEST                    @DY14188 96720034
00CF4C 4770 FCE6      0CF60       17593+         BNE   NOOCDEQ            NO OPERATOR CONSOLE DEQ        @DY14188 96720134
00CF50 9280 F6FE      0C978       17594+         MVI   TRANSAV3,X'80'     INDICATE TO RAST02 CRT DEQUEU@DY14188 96720234
00CF54 5870 F70E                  0C988 17595+         L     R7,TRANSAV7        GET RETURN REGISTER AND        @DY14188 96720334
00CF58 4177 0004                  00004 17596+         LA    R7,4(R7)            POINT PAST BUSY BIT RESET ,@DY14188 96720434
00CF5C 5070 F70E                  0C988 17597+         ST    R7,TRANSAV7          IN $$RAST02               @DY14188 96720534
                           0CF60  17598+NOOCDEQ EQU   *                    NO OPERATER CONSOLE DEQUEUE    @DY14188 96720634
00CF60 9200 F772      0C9EC       17599+         MVI   LINKFLAG,ZERO .    CLEAR THE FLAG BYTE            @DM00219 96721334
00CF64 47F0 FDDE      0D058       17600+         B     RTARETRN .         RETURN TO TRANSIENT                HL 96721434


                                  17602+*              ROUTINE THAT INITIALIZES I/O REGISTERS                  HL 96724828
                                  17603+*              R3 POINTS TO THE PUB                                    HL 96726628
00CF68 9200 F772      0C9EC       17604+RASINITR MVI   LINKFLAG,ZERO .    CLEAR THE FLAG BYTE                96728428
00CF6C 5830 F6FE                  0C978 17605+         L     R3,TRANSAV3 .      GET R3 FROM RTA                HL 96730228
00CF70 4570 0B20                  00B20 17606+         BAL   R7,CQDSP .         USE SUPERVISOR ROUTINE         HL 96732028
00CF74 5010 F71E                  0C998 17607+         ST    R1,TRANSAVB .      SAVE                         DT82 96733828
00CF78 5040 F702                  0C97C 17608+         ST    R4,TRANSAV4 .          REGISTERS                  HL 96735628
00CF7C 50A0 F71A                  0C994 17609+         ST    RA,TRANSAVA .              FOR RTA                HL 96737428
00CF80 47F0 FDDE      0D058       17610+         B     RTARETRN .         RETURN TO RTA                      HL 96739228


                                  17612+*              ROUTINE TO SIMULATE GETIME FOR THE RTA          @D34DDAZ 96742834
00CF84 9200 F772      0C9EC       17613+RASTIMER MVI   LINKFLAG,ZERO .    CLEAR THE FLAG BYTE                96744628
00CF88 0A22                       17614+         SVC   GETIME .           ISSUE GETIME                       HL 96746428
00CF8A 0700                       17615+         NOPR  R0 .               INDICATE WHICH FORMAT              HL 96748228
00CF8C 5010 F6F6                  0C970 17616+         ST    R1,TRANSAV1 .      SAVE R1 FOR RTA                HL 96750028
00CF90 47F0 FDDE      0D058       17617+         B     RTARETRN .         RETURN TO RTA                      HL 96752528


                                  17619+*              ROUTINE TO PERFORM I/O IN EMERGENCY SITUATIONS          HL 96757528
                                  17620+*              AT ENTRY TO THIS ROUTINE THE CAW HAS BEEN SET UP        HL 96760028
                                  17621+*              AND R2 CONTAINS THE ADDRESS OF THE DEVICE               HL 96762528
00CF94 9200 F772      0C9EC       17622+RASEMGIO MVI   LINKFLAG,ZERO .    CLEAR THE FLAG BYTE                96765028
00CF98 5820 F6FA                  0C974 17623+         L     R2,TRANSAV2 .      GET R2 FROM RTA                HL 96767028
00CF9C 4170 00FF                  000FF 17624+         LA    R7,RASMAXCT .      GET MAX RETRY COUNT            HL 96769033
00CFA0 4180 FD56                  0CFD0 17625+         LA    R8,RASEMGI2 .      NORMAL EXIT ROUTINE            HL 96770028
00CFA4 9203 073D      0073D       17626+         MVI   SELECT,RASID .     INDICATE RAS FUNCTION          @DM02751 96771428
                                  17627+* THIS IS ALLOWED BECAUSE RAS KEEPS CONTROL UNTIL HARD WAIT                96771828
00CFA8 0550                       17628+         BALR  R5,R0              PREPARE WORKREG 5              @DA07343 96771933
                           0CFAA  17629+RASCFREE EQU   *                                                 @DA07343 96772233
00CFAA ACFC F7FB      0CA75       17630+         STNSM RASDUMMY,DISABLE   DISABLE I/O INTERRUPTS          @DA07343 96772433
00CFAE 9D00 2000      00000       17631+         TIO   0(R2)              DEVICE AVAILABLE ?             @DA07343 96772633
00CFB2 4710 FD52      0CFCC       17632+         BO    RASHWTRN           NOT OPERATIONAL                @DA07343 96772833
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00CFB6 4780 FD4A      0CFC4       17633+         BZ    RASATSIO            AVAILABLE,ATTEMPT SIO        @DA07343 96773033
00CFBA BE57 007D            0007D 17634+         STCM  R5,M7,IONPSW+5      CAPTURE I/O INTERRUPTS       @DA07343 96773233
00CFBE AD02 F7FB      0CA75       17635+         STOSM RASDUMMY,ENABLIO    ALLOW I/O INTERRUPTS         @DA07343 96773433
00CFC2 07F5                       17636+         BR    R5                  LOOP UNTIL CHANNEL IS FREE   @DA07343 96773633
00CFC4 4550 FD66            0CFE0 17637+RASATSIO BAL   R5,RASSIO           GO TO RASSIO - ROUTINE       @D34SDSK 96773834
                                  17638+*                                  R5 IS ERROR RETURN           @DA07343 96774033
00CFC8 4670 FD66            0CFE0 17639+         BCT   R7,RASSIO           RETRY, UNTIL COUNT EXHAUSTED @DA07343 96774234
00CFCC 47F0 FDDE      0D058       17640+RASHWTRN B     RTARETRN            BRANCH TO ERROR EXIT         @DA07343 96774433
00CFD0 5870 F70E            0C988 17641+RASEMGI2 L     R7,TRANSAV7 .       UPDATE                             HL 96782528
00CFD4 4177 0004            00004 17642+         LA    R7,D4(R7) .           RETURN                           HL 96785028
00CFD8 5070 F70E            0C988 17643+         ST    R7,TRANSAV7 .           ADDRESS                        HL 96787528
                                  17644+*                                  R7+4 IS SUCCESSFULL RETURN       HL 96790028
00CFDC 47F0 FDDE      0D058       17645+         B     RTARETRN            RETURN TO RTA                @D34SDAZ 96791034


                            0CFE0 17647+RASSIO   EQU   *                                                @D34SDAZ 96793434
00CFE0 9C00 2000      00000       17648+RASSIO1  SIO   0(R2)               START I/O                    @D34SDSK 96794434
00CFE4 4720 FD66            0CFE0 17649+         BC    2,RASSIO1           IF BUSY, LOOP                @D34SDSK 96794534
00CFE8 4740 FD8A            0D004 17650+         BC    4,RASCSWCK          CHECK CSW STORED             @D34SDSK 96794634
00CFEC 05C0                       17651+         BALR  RC,R0               PREPARE R12                  @D34SDSK 96794734
00CFEE ACFC F7FB      0CA75       17652+         STNSM RASDUMMY,DISABLE    DISABLE I/O INTERRUPTS       @D34SDSK 96795734
00CFF2 9D00 2000      00000       17653+         TIO   0(R2)               BUSY ?                       @D34SDSK 96795834
00CFF6 47D0 FDA2            0D01C 17654+         BC    13,RASNOTBY         NO, BRANCH                   @D34SDSK 96795934
00CFFA BEC7 007D            0007D 17655+         STCM  RC,M7,IONPSW+5      CHANGE I/O NEW PSW           @D34SDSK 96796034
00CFFE AD02 F7FB      0CA75       17656+         STOSM RASDUMMY,ENABLIO    ENABLE I/O INTERRUPTS        @D34SDSK 96796434
00D002 07FC                       17657+         BR    RC                  LOOP UNTIL NOT BUSY          @D34SDSK 96796534
00D004 913F 0045      00045       17658+RASCSWCK TM    CHNSTA,CHNERR       ANY CHANNEL ERROR ?          @D34SDSK 96797534
00D008 0775                       17659+         BCR   7,R5                ERROR EXIT                   @D34SDSK 96797734
00D00A 9170 0044      00044       17660+         TM    DEVSTA,STATMOD+BUSY+CUEND SHORT BUSY SEQUENCE ?  @D34SDSK 96797834
00D00E 4710 FD66      0CFE0       17661+         BO    RASSIO1             GIVE SIO AGAIN               @D34SDSK 96797934
00D012 9110 0044      00044       17662+         TM    DEVSTA,BUSY         BUSY ?                       @D34SDSK 96798034
00D016 4710 FD66            0CFE0 17663+         BC    1,RASSIO1           GIVE SIO AGAIN               @D34SDSK 96798134
00D01A 07F5                       17664+         BR    R5                  ERROR EXIT                   @D34SDSK 96798334
00D01C 4710 F240            0C4BA 17665+RASNOTBY BC    1,EMGHWT            NOT OPERATIONAL,HARD WAIT    @D34SDSK 96798734
00D020 913F 0045      00045       17666+         TM    CHNSTA,CHNERR       ANY CHANNEL ERROR ?          @D34SDSK 96799134
00D024 0775                       17667+         BCR   7,R5                YES, RETRY                   @D34SDSK 96799334
00D026 9103 0044      00044       17668+         TM    DEVSTA,DEVERR       DEVICE ERROR ?               @D34SDSK 96799534
00D02A 0775                       17669+         BCR   7,R5                YES, RETRY                   @D34SDSK 96799734
00D02C 9170 0044      00044       17670+         TM    DEVSTA,STATMOD+BUSY+CUEND SHORT BUSY SEQUENCE ?  @D34SDSK 96799934
00D030 4710 FD66      0CFE0       17671+         BO    RASSIO1             GIVE SIO AGAIN               @D34SDSK 96800134
00D034 9110 0044      00044       17672+         TM    DEVSTA,BUSY         BUSY ?                       @D34SDSK 96800334
00D038 4710 FD66      0CFE0       17673+         BO    RASSIO1             YES, SIO AGAIN               @D34SDSK 96800534
00D03C 910C 0044      00044       17674+         TM    DEVSTA,CHANEND+DEVEND CHANNEL AND/OR DEVICE END  @D34SDSK 96800934
00D040 0778                       17675+         BCR   NZ,R8               YES, GO BACK TO CALLER       @D34SDSK 96801134
00D042 07F5                       17676+         BR    R5                  DO RETRY                     @D34RDSK 96801334


                                  17678+*        ROUTINE TO PERFORM IPL-EXIT FOR RAS                       HL 96801734
00D044 9200 F772      0C9EC       17679+RASIPLR  MVI   LINKFLAG,ZERO .     CLEAR FUNCTION FLAG                  96801934
00D048 9200 073D      0073D       17680+         MVI   SELECT,X'00' .      RESET TO NON-DISPATCHABLE         JAB 96802134
00D04C 94DF 073A      0073A       17681+         NI    SYSFLAG3,XFF-RASIPLBT RESET RAS-IPL FLAG IN SYSFLAG3  HL 96802334
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D050 94FE 0819      00819       17682+         NI    RASFLAGS,XFF-RTAIOA  RESET RAS I/O ACTIVE FLAG  @DA08988 96802434
                            05E18 17683+         USING DISP,R6                                          @DM05356 96803334
00D054 47F0 6000      05E18       17684+         B     DISP                 RETURN TO USER               @DM05356 96803534
                                  17685+         DROP  R6                                               @DM05356 96803734



                                  17687+*              ROUTINE TO RETURN TO CALLING PROGRAM                    HL 96804128
                                  17688+*              THIS IS THE RTA OR THE RTA FETCH ROTINE                 HL 96807028
00D058 9520 F772      0C9EC       17689+RTARETRN CLI   LINKFLAG,RASLFTCH .FETCH REQUEST                       HL 96812828
00D05C 4770 FDF0      0D06A       17690+         BNE   RTARETR2 .          NO,NORMAL RETURN TO RTA              HL 96815728
00D060 9200 F772      0C9EC       17691+         MVI   LINKFLAG,ZERO .     CLEAR FLAG BYTE                         96818628
00D064 5870 F70E            0C988 17692+         L     R7,TRANSAV7 .       GET RETURN ADDRESS                   HL 96821528
00D068 07F7                       17693+         BR    R7 .                RETURN TO RTAFETCH                   HL 96824428
00D06A 980F F6F2            0C96C 17694+RTARETR2 LM    R0,RF,TRANSAV .     RESTORE RTA REGISTERS                HL 96826234
00D06E 07F7                       17695+         BR    R7 .                RETURN TO RTA                        HL 96830228

00D070 80                         17697+RASHION  DC    X'80' .             BYTE TO POST HIGH-ORDER BIT  @DM01647 96835128
00D071 00                         17698+RASTAPSW DC    X'00' .             SWITCH FOR RETRY INTERFACE   @D34SDAZ 96835434
                            00080 17699+RASRTSUC EQU   X'80'               CHANNEL CHECK RETRY SUCCESSF @D34SDAZ 96835734
                            00020 17700+POWERACT EQU   X'20'               POWER ACTIVE                 @DY13326 96836034
00D072                            17701+         DS    0H                  ALIGNE                       @DL29ZCJ 96836334
00D072 0000000000000000           17702+RASUCSW  DC    XL8'00' .           SAVE USER CSW FOR CCH RETRY  @DL29ZCJ 96836629
00D07A 0000                       17703+RASUPUB  DC    XL2'00' .           SAVE USER PUB                @DL29ZCJ 96839529
00D07C 0000000000000000           17704+         DC    XL48'00' .          PATCH                        @DM03030 96845729
                            00000 17705+         USING SYSS00,R0,RB .      RESTORE STANDARD ADDRESSING  @D34RDFG 96850734
                                  17706+* SUPERVISOR - SGSCVRT - 5745-SC-RPS - REL. 34.0                 @D34DDAP 00200034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 17708+*****************************************************************        00350030
                                 17709+*                                                               *        00400030
                                 17710+*   ROTATIONAL POSITION SENSING SECTOR CONVERT ROUTINE          *        00450030
                                 17711+*                                                               *        00500030
                                 17712+*FUNCTION                                                       *        00550030
                                 17713+*   THE FUNCTION OF THE SECTOR CONVERT ROUTINE IS TO            *        00600030
                                 17714+*   CALCULATE THE SECTOR VALUE CORRESPONDING TO A RECORD        *        00650030
                                 17715+*   NUMBER ON A ROTATIONAL POSITION SENSING (RPS) TYPE          *        00700030
                                 17716+*   DEVICE.                                                     *        00750030
                                 17717+*                                                               *        00800030
                                 17718+*   FOR FIXED LENGTH RECORDS, IT WILL SUM THE DATA LENGTHS,     *        00850030
                                 17719+*   KEY LENGTHS, AND OVERHEAD LENGTHS OF ALL PREVIOUS           *        00900030
                                 17720+*   RECORDS AND ADD TO IT THE OVERHEAD FOR RECORD ZERO.         *        00950030
                                 17721+*   THIS RESULTS IN THE NUMBER OF BYTES SO FAR USED ON          *        01000030
                                 17722+*   THE TRACK.  THEN MULTIPLYING BY THE NUMBER OF               *        01050030
                                 17723+*   SECTORS PER TRACK AND DIVIDING BY THE TRACK CAPACITY,       *        01100030
                                 17724+*   THE FINAL RESULT WILL BE THE SECTOR VALUE OF THE NEXT       *        01150030
                                 17725+*   RECORD.                                                     *        01200030
                                 17726+*                                                               *        01250030
                                 17727+*   VARIABLE LENGTH RECORDS CANNOT BE DONE SO EASILY.           *        01300030
                                 17728+*   THEREFORE, IT IS THE RESPONSIBILITY OF THE CALLING          *        01350030
                                 17729+*   PROGRAM TO SUPPLY THE NUMBER OF BYTES WRITTEN SO FAR.       *        01400030
                                 17730+*   THE ROUTINE WILL THEN CALCULATE THE OVERHEAD AND            *        01450030
                                 17731+*   EVENTUALLY THE SECTOR VALUE.                                *        01500030
                                 17732+*                                                               *        01550030
                                 17733+*   IF THE CALCULATED SECTOR VALUE EXCEEDS THE POSSIBLE NUMBER*        01552030
                                 17734+*   OF SECTORS ON A TRACK FOR A SPECIFIED DEVICE, X'FF' WILL    *        01554030
                                 17735+*   BE RETURNED IN REGISTER ZERO. IF USED BLINDLY, THE SET      *        01556030
                                 17736+*   SECTOR INSTRUCTION WILL ACT AS A NO-OP DUE TO THE X'FF'.    *        01558030
                                 17737+*                                                               *        01560030
                                 17738+*   THE SECTOR VALUE IS RETURNED IN REGISTER ZERO.              *        01600030
                                 17739+*                                                               *        01650030
                                 17740+*ENTRY POINTS                                                   *        01700030
                                 17741+*        SECTCAL  -  IF CALLED VIA AN SVC 75                    *        01750030
                                 17742+*        SCVRTBAL -  IF ENTERED VIA A BAL FROM FETCH OR         *        01800030
                                 17743+*                    PAGE MANAGER                               *        01850030
                                 17744+*                                                               *        01900030
                                 17745+*INPUT                                                          *        01950030
                                 17746+*   R10  -  CONTAINS ADDRESS OF PIB (IF CALLED BY SVC).         *        02000030
                                 17747+*   R6   -  CONTAINS EXIT ADDRESS IF CALLED BY SVC              *        02050030
                                 17748+*   R7   -  RETURN REGISTER IF ENTERED BY BAL                   *        02100030
                                 17749+*   R9   -  CONTAINS BASE ADDRESS FOR THIS ROUTINE              *        02150030
                                 17750+*   R0   -  PARAMETER REGISTER (IF ENTERED BY SVC CALL          *        02200030
                                 17751+*           PARAMETERS ARE ADDRESSED IN USER SAVE AREA AS       *        02250030
                                 17752+*           POINTED TO BY PIBSAVE)                              *        02300030
                                 17753+*   R1   -  PARAMETER REGISTER ( SAME AS FOR R0)                *        02350030
                                 17754+*           IF ENTERED BY BAL, ALSO CONTAINS BASE FOR THIS      *        02360030
                                 17755+*           ROUTINE.                                            *        02370030
                                 17756+*                                                               *        02400030
                                 17757+*OUTPUT                                                         *        02450030
                                 17758+*   R0   -  SECTOR VALUE (IF ENTERED BY SVC CALL, THIS          *        02500030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 17759+*           VALUE IS STORED AT REG 0 POSITION OF USER         *         02550030
                                 17760+*           SAVE AREA.  SUPERVISOR EXIT ROUTINE WILL PUT      *         02600030
                                 17761+*           IT IN R0)                                         *         02650030
                                 17762+*   ALL OTHER REGISTERS REMAIN UNCHANGED.                     *         02700030
                                 17763+*                                                             *         02750030
                                 17764+*EXTERNAL REFERENCES                                          *         02800030
                                 17765+*        NONE                                                 *         02850030
                                 17766+*                                                             *         02900030
                                 17767+*EXITS NORMAL                                                 *         02950030
                                 17768+*        EXIT    - VIA REG 6 IF CALLED BY SVC                 *         03000030
                                 17769+*        R7      - REGISTER RETURN IF ENTERED BY BAL          *         03050030
                                 17770+*                                                             *         03100030
                                 17771+*EXITS ERROR                                                  *         03150030
                                 17772+*        NONE                                                 *         03200030
                                 17773+*                                                             *         03250030
                                 17774+*TABLES/WORK AREAS                                            *         03300030
                                 17775+*   DDT      - DEVICE TABLE ENTRIES                           *         03350030
                                 17776+*   SCVRTP   - USER SAVE AREA MAP                             *         03400030
                                 17777+*   SCVRTSV  - REG 8 SAVE AREA                                *         03450030
                                 17778+*   SCVRTSV5 - REG 0 TO 5 SAVE AREA IF ENTERED BY BAL         *         03500030
                                 17779+*                                                             *         03550030
                                 17780+*ATTRIBUTES                                                   *         03600030
                                 17781+*        REUSABLE, PRIVILEGED, DISABLED                       *         03650030
                                 17782+*                                                             *         03700030
                                 17783+*NOTES                                                        *         03750030
                                 17784+*                                                             *         03800030
                                 17785+**************************************************************         03850030
                                 17786+**************************************************************         05950030
                                 17787+*        ENTRY FROM SVC CALL                                  *         06000030
                                 17788+*          REGISTER 10  - ADDRESS OF PIB                      *         06050030
                                 17789+*          REGISTER  6  - EXIT ADDRESS                        *         06100030
                                 17790+*                                                             *         06150030
                                 17791+*        INPUT PARAMETER IN PIB SAVE AREA                     *         06200030
                                 17792+**************************************************************         06250030
00D0AC 189D                      17793+SECTCAL  LR    R9,RD                  LOAD BASE REGISTER      @D34RDFG 06300034
                       0D0AC     17794+         USING SECTCAL,R9             SET ADDRESSABILITY               06350030
00D0AE 47F0 9022       0D0CE     17795+         B     SCVRT00                GO TO SVC CALL ENTRY             06400030


                                 17797+**************************************************************         06500030
                                 17798+*        ENTRY FROM BAL CALL                                  *         06550030
                                 17799+*          REGISTERS 0 AND 1 CONTAIN INPUT PARAMETERS         *         06600030
                                 17800+*          REGISTER 7  -  EXIT ADDRESS                        *         06650030
                                 17801+*          REGISTERS 1 TO 5 ARE SAVED AT END OF THIS ROUTINE  *         06700030
                                 17802+*                                                             *         06750030
                                 17803+*        NO INTERRUPTS ARE CAUSED, SO ROUTINE CANNOT BE RE-   *         06800030
                                 17804+*          -ENTERED BY SYSTEM TASKS                           *         06850030
                                 17805+*                                                             *         06900030
                                 17806+*        NO INSTRUCTIONS MUST BE INSERTED BETWEEN LABELS      *         06950030
                                 17807+*          SECTCAL AND SCVRTBAL UNLESS THE BAL MECHANISMS     *         07000030
                                 17808+*          IN FETCH AND PAGE MANAGER ARE ALTERED.  THEY ENTER *         07050030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  17809+*          THIS ROUTINE VIA WHAT IS EFFECTIVELY A             *         07100030
                                  17810+*                    B     SECTCAL+4                           *         07150030
                                  17811+*************************************************************         07200030
                            0D0B2 17812+SCVRTBAL EQU   *                                                      07250030
                                  17813+         DROP  R9                    FORGET R9 MOMENTARILY          07257530
                            0D0AC 17814+         USING SECTCAL,R1            FROM A BAL VIA R1              07265030
00D0B2 9089 10E8            0D194 17815+         STM   R8,R9,SCVRTSV         SAVE REGS 8 AND 9              07272530
00D0B6 1891                       17816+         LR    R9,R1                 GET RIGHT BASE REG9            07280030
                                  17817+         DROP  R1                    NOW FORGET REG 1               07287530
                            0D0AC 17818+         USING SECTCAL,R9            GET ADDRESSABILITY             07295030
00D0B8 9005 90F0            0D19C 17819+         STM   R0,R5,SCVRTSV5        STORE CALLERS REGS             07350030
00D0BC 4180 90F0            0D19C 17820+         LA    R8,SCVRTSV5           POINT TO REG SAVE AREA         07400030
00D0C0 4550 9034            0D0E0 17821+         BAL   R5,SCVTRTN            GO HAVE SECT CALCULATED        07450030
00D0C4 9815 90F4            0D1A0 17822+         LM    R1,R5,SCVRTSV5+D4     RESTORE CALLER'S REGS          07500030
00D0C8 9889 90E8            0D194 17823+         LM    R8,R9,SCVRTSV         RESTORE REG 8 AND R9           07550030
00D0CC 07F7                       17824+         BR    R7                    RETURN TO CALLER               07600030
                                  17825+*                                                                     07650030


                                  17827+*************************************************************         07750030
                                  17828+*        SET UP PIB SAVE POINTER, HAVE SECTOR VALUE CALC-     *         07800030
                                  17829+*          -ULATED AND RETURN TO SVC CALLER                   *         07850030
                                  17830+*************************************************************         07900030
                            0D0CE 17831+SCVRT00  EQU   *                                                      07950030
00D0CE 5880 A004            00004 17832+         L     R8,PIBSAVE            POINT TO PIB SAVE AREA         08000030
                            00000 17833+         USING SVEARA,R8             SET UP ADDRESSABILITY          08010030
00D0D2 4180 802C            0002C 17834+         LA    R8,SVER00             POINT TO REG 0                 08050030
00D0D6 4550 9034            0D0E0 17835+         BAL   R5,SCVTRTN            GO CALCULATE SECT VAL.         08100030
00D0DA 5008 0000            00000 17836+         ST    R0,D0(R8)             SET SECT VAL FOR USER          08150030
00D0DE 07F6                       17837+         BR    R6                    EXIT                           08200030


                                  17839+*************************************************************         08300030
                                  17840+*        INITIALIZE WORK REGISTERS AND DASD DEVICE TABLE      *         08350030
                                  17841+*          POINTERS.                                          *         08400030
                                  17842+*************************************************************         08450030
                            0D0E0 17843+SCVTRTN  EQU   *                                                      08500030
00D0E0 1B11                       17844+         SR    R1,R1                 CLEAR OUT WORK                 08550030
00D0E2 1821                       17845+         LR    R2,R1                 REGISTER                       08600030
00D0E4 1831                       17846+         LR    R3,R1                 ONE, TWO, THREE,               08650030
00D0E6 1841                       17847+         LR    R4,R1                 AND FOUR                       08700030
                            00000 17848+         USING SCVRTP,R8             MAKE PARMS ADDRESSABLE         08750030
00D0E8 1B00                       17849+         SR    R0,R0                 ASSUME R0                      08800030
00D0EA 9500 8003      00003       17850+         CLI   SCVRTPRN,ZERO         IS RECORD NUMBER ZERO          08850030
00D0EE 0785                       17851+         BCR   EIGHT,R5              YES, RETURN                    08900030
00D0F0 4140 90D0            0D17C 17852+         LA    R4,DDT3330            ASSUME 3330 DEVICE             08950030
00D0F4 9504 8004      00004       17853+         CLI   SCVRTPDT,SCV3330      IS IT 3330 IN DTF              09000030
00D0F8 4780 9070      0D11C       17854+         BE    SCVRTKAD              YES, ALL O.K.                  09050030
00D0FC 9505 8004      00004       17855+         CLI   SCVRTPDT,SCV3330B     IS IT 3330 MODEL 11     @D34DDAP 09060034
00D100 4780 9070      0D11C       17856+         BE    SCVRTKAD              YES, ALL O.K.           @D34DDAP 09070034
00D104 4140 90E0            0D18C 17857+         LA    R4,DDT3350            NO, MUST BE 3350        @D34DDAP 09077034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                 DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D108 9507 8004      00004       17858+         CLI   SCVRTPDT,SCV3350        IS IT A 3350            @D34DDAP 09084034
00D10C 4780 9070      0D11C       17859+         BE    SCVRTKAD                YES, ALL O.K.           @D34DDAP 09091034
00D110 4140 90D8            0D184 17860+         LA    R4,DDT3340              NO, TEST FOR 3340       @D34DDAP 09100034
00D114 9108 8004      00004       17861+         TM    SCVRTPDT,SCV3340        IS IT A 3340            @D34DDAP 09103034
00D118 47E0 90BE      0D16A       17862+         BNO   SCVRTERR               NO, DO ERROR PROCESSING          09120030
                            00000 17863+         USING DDTENTRY,R4             MAKE DEVICE TABLE                09150030
                                  17864+*                                      ADDRESSABLE                      09200030


                                  17866+*************************************************************         09300030
                                  17867+*        ADD KEY LENGTH AND DATA LENGTH AND MULTIPLY BY RECORD*         09350030
                                  17868+*          NUMBER MINUS ONE  -  (KL+DL)(R-1)                  *         09400030
                                  17869+*************************************************************         09450030
                            0D11C 17870+SCVRTKAD EQU   *                                                      09500030
00D11C 4310 8003            00003 17871+         IC    R1,SCVRTPRN             GET RECORD NUMBER                09550030
00D120 0610                       17872+         BCTR  R1,R0                   DECREMENT BY ONE  R-1            09600030
00D122 9180 8000      00000       17873+         TM    SCVRTPDL,SCVRTPVL       ARE RECORDS VARIABLE             09650030
00D126 4710 90C4      0D170       17874+         BO    SCVRTVLR                YES, USE TOTAL BYTES             09700030
00D12A 4330 8002            00002 17875+         IC    R3,SCVRTPKL             NO, PICK UP KEY LENGTH           09750030
00D12E 4A30 8000            00000 17876+         AH    R3,SCVRTPDL             ADD DATA LENGTH -KL+DL           09800030
00D132 1C21                       17877+         MR    R2,R1                   R3 = (R-1)(KL+DL)                09850030
00D134 1803                       17878+         LR    R0,R3                   SAVE RESULT                      09900030


                                  17880+*************************************************************         10000030
                                  17881+*        GET BLOCK OVERHEAD FOR KEYED OR NON-KEYED RECORDS    *         10050030
                                  17882+*          AND MULTIPLY THE OVERHEAD BY RECORD NUMBER MINUS   *         10100030
                                  17883+*          ONE  (KO+BO)(R-1). THEN ADD R0 OVERHEAD TO RESULT. *         10150030
                                  17884+*************************************************************         10200030
                            0D136 17885+SCVRTOVH EQU   *                                                      10250030
00D136 1B33                       17886+         SR    R3,R3                   RE-CLEAR WORK REG                10300030
00D138 9500 8002      00002       17887+         CLI   SCVRTPKL,ZERO           ARE RECORDS KEYED                10350030
00D13C 4780 9098      0D144       17888+         BE    SCVRTNOK                NO, DON'T ADD KEY OVHD           10400030
00D140 4330 4006            00006 17889+         IC    R3,DDTKO                YES, GET KEY OVERHEAD            10450030
                                  17890+*************************************************************         10475030
                                  17891+*        R3 HAS KEY OVERHEAD IF KEYED RECORDS OR ZERO IF NO   *         10480030
                                  17892+*          KEYS.                                              *         10485030
                                  17893+*************************************************************         10490030
                            0D144 17894+SCVRTNOK EQU   *                                                      10500030
00D144 4A30 4004            00004 17895+         AH    R3,DDTBO                ADD BLOCK OVERHEAD               10550030
00D148 1C21                       17896+         MR    R2,R1                   MULT. BY NUM RECS-1              10600030
00D14A 4A30 4002            00002 17897+         AH    R3,DDTR0                ADD R0 OVERHEAD                  10650030


                                  17899+*************************************************************         10750030
                                  17900+*        ADD TOTAL DATA LENGTH TO TOTAL OVERHEAD LENGTH AND   *         10800030
                                  17901+*          MULTIPLY BY NUMBER OF SECTORS DIVIDED BY TRACK     *         10850030
                                  17902+*          CAPACITY.                                          *         10900030
                                  17903+*          (((KL+DL+KO+BO)(R-1)+R0)*S)/TC                     *         10950030
                                  17904+*************************************************************         11000030
                            0D14E 17905+SCVRTTOT EQU   *                                                      11050030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D14E 1A30                      17906+         AR    R3,R0                 ADD DATA TO OVERHEAD             11100030
00D150 1B11                      17907+         SR    R1,R1                 ZERO A WORK REGISTER             11150030
00D152 4310 4007           00007 17908+         IC    R1,DDTNS              GET NUM OF SECTORS               11200030
00D156 1C21                      17909+         MR    R2,R1                 MULT TOT BY NUM SECTS            11250030
00D158 4810 4000           00000 17910+         LH    R1,DDTTC              GET THE TRACK CAPACITY           11300030
00D15C 1D21                      17911+         DR    R2,R1                 GET SECTOR VALUE                 11310030
00D15E 1803                      17912+         LR    R0,R3                 PUT RESULT IN REG 0              11350030
00D160 1B22                      17913+         SR    R2,R2                 ZERO OUT A WORK REG              11357530
00D162 4320 4007           00007 17914+         IC    R2,DDTNS              GET NUM SECTORS PER TRACK        11359030
00D166 1932                      17915+         CR    R3,R2                 VALID SECTOR NUMBER              11360030
00D168 0745                      17916+         BCR   L,R5                  YES, RETURN                      11370030
                                 17917+*************************************************************      11371030
                                 17918+*        FOR INVALID DEVICE OR A CALCULATED SECTOR VALUE THAT *      11371130
                                 17919+*          IS TOO HIGH, A SECTOR VALUE OF X'FF' IS RETURNED   *      11373330
                                 17920+*          TO THE USER.  THIS CAUSES A SET SECTOR COMMAND TO  *      11374330
                                 17921+*          EXECUTE AS A NO-OP.                                *      11375330
                                 17922+*************************************************************      11375630
                           0D16A 17923+SCVRTERR EQU   *                                                    11377830
00D16A 4100 00FF           000FF 17924+         LA    R0,XFF                CAUSE SET SECT TO NOOP           11380030
00D16E 07F5                      17925+         BR    R5                    RETURN TO CALLER                 11400030


                                 17927+*************************************************************      11500030
                                 17928+*        FOR VARIABLE LENGTH RECORDS, THE TOTAL AMOUNT OF    *      11550030
                                 17929+*          DATA USED UP TO THE CURRENT RECORD IS PASSED BY   *      11600030
                                 17930+*          THE CALLER.  THE INDICATOR IS TURNED OFF AND THE  *      11650030
                                 17931+*          TOTAL BYTES IS USED AS THE KL+DL.  RETURN TO      *      11700030
                                 17932+*          MAINLINE WILL CONTINUE WITH OVERHEAD CALCULATION. *      11750030
                                 17933+*************************************************************      11800030
                           0D170 17934+SCVRTVLR EQU   *                                                    11850030
00D170 947F 8000      00000      17935+         NI    SCVRTPDL,XFF-SCVRTPVL RESET VLR INDICATOR              11900030
00D174 4800 8000           00000 17936+         LH    R0,SCVRTPDL           GET DATA LENGTH                  11950030
00D178 47F0 908A      0D136      17937+         B     SCVRTOVH              GO DETERMINE OVERHEAD            12000030


                                 17939+*************************************************************      12100030
                                 17940+*        DEVICE TABLE FOR RPS TYPE DEVICES                   *      12150030
                                 17941+*************************************************************      12200030
00D17C                           17942+DDT3330  DS    0H                    3330 CHARACTERISTICS             12250030
00D17C 3480                      17943+         DC    H'13440'              TRACK CAPACITY                   12300030
00D17E 00ED                      17944+         DC    H'237'                R0 OVERHEAD                      12350030
00D180 0087                      17945+         DC    H'135'                BLOCK OVERHEAD                   12400030
00D182 38                        17946+         DC    AL1(56)               KEY OVERHEAD                     12450030
00D183 80                        17947+         DC    AL1(128)              NUMBER SECTORS/TRACK             12500030


00D184                           17949+DDT3340  DS    0H                    3340 CHARACTERISTICS             12800030
00D184 2300                      17950+         DC    H'8960'               TRACK CAPACITY                   12850030
00D186 0125                      17951+         DC    H'293'                R0 OVERHEAD                      12900030
00D188 00A7                      17952+         DC    H'167'                BLOCK OVERHEAD                   12950030
00D18A 4B                        17953+         DC    AL1(75)               KEY OVERHEAD                     13000030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D18B 40                         17954+         DC    AL1(64)                NUMBER SECTORS/TRACK              13050030


00D18C                            17956+DDT3350  DS    0H                     3350 CHARACTERISTICS    @D34DDAP 13306034
00D18C 4DFC                       17957+         DC    H'19964'               TRACK CAPACITY          @D34DDAP 13312034
00D18E 0185                       17958+         DC    H'389'                 R0 OVERHEAD             @D34DDAP 13316034
00D190 00B9                       17959+         DC    H'185'                 BLOCK OVERHEAD          @D34DDAP 13324034
00D192 52                         17960+         DC    AL1(82)                KEY OVERHEAD            @D34DDAP 13330034
00D193 80                         17961+         DC    AL1(128)               NUMBER SECTORS/TRACK    @D34DDAP 13336034


                                  17963+*************************************************************         13350030
                                  17964+*       WORK AND SAVE AREAS                                 *         13400030
                                  17965+*************************************************************         13450030
00D194                            17966+SCVRTSV  DS    2F                     REG 8 AND REG 9 SAVE AREA         13500030
00D19C                            17967+SCVRTSV5 DS    6F                     REG 0 - REG 5 SAVE AREA           13550030
                                  17968+         DROP  R4,R8,R9               FORGET ANY BASE REGS              13600030
                                  17969+* SUPERVISOR - SGIOS - 5745-SC-SUP - REL. 34.1                 @DY20607 00144234
00D1B4 07FC                       17970+SGIOS    BR    RC                       BRANCH TO SVC ROUTINE  @D34RDFG 02700034
                            0D1B4 17971+         USING SGIOS,RD                 COMMON BASE FOR SGIOS  @D34RDFG 02730034
                            00000 17972+         USING CCBADR,R1                CCB POINTER            @D34RDFG 02800034
                            00000 17973+         USING PUBADR,R3                PUB POINTER            @D34RDFG 02820034
                            00000 17974+         USING CHQADR,R4                CHANNEL QUEUE POINTER  @D34RDFG 02850034
                            00000 17975+         USING CCWADR,R7                CCW POINTER            @D34RDFG 02900034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                  17978+*********************************************************************** 03050034
                                  17979+*        THE FOLLOWING ROUTINE CALCULATES THE PUB ADDRESS FROM THE    * 03100034
                                  17980+*        LUB IDENTIFIER IN THE USER CCB.                              * 03150034
                                  17981+*        IT ALSO CHECKS FOR INVALID PARAMETERS IN THE CCB,            * 03200034
                                  17982+*        AND UPDATES THE USECOUNT FOR EACH DEVICE IN THE PUB2 TABLE   * 03250034
                                  17983+*        WHEN IO REQUEST WILL BE QUEUED.                      @DA00214 03300034
                                  17984+*        IT IS RE-ENTRABLE                                             03350034
                                  17985+*                                                                      03400034
                                  17986+*        RETURN IS MADE VIA REGISTER 14 TO THE CALLING ROUTINE.       * 03450034
                                  17987+*        EXIT VIA IGNLUB IF LOGICAL UNIT IS TEMPORARILY UNASSIGNED.   * 03500034
                                  17988+*        ERROR EXITS:  TO VARIOUS ENTRY POINTS IN THE CANCEL ROUTINE  * 03550034
                                  17989+*                       WHEN USER ERRORS ARE DETECTED.                 * 03600034
                                  17990+*********************************************************************** 03650034


00D1B6 941F 1002      00002       17992+IGNLUB   NI    CCBCOM1,CLRCOM1    CLEAR CHANNEL SCHED.FLAGS    @DA01609 03750034
00D1BA 9405 1003      00003       17993+         NI    CCBCOM2,CLRCOM2    IN USER CCB                  @DA01609 03800034
00D1BE 9200 1004      00004       17994+         MVI   CCBSTA1,ZERO       CLEAR DEVICE STATUS IN CCB   @D34SDEP 03850034
00D1C2 9200 1005      00005       17995+         MVI   CCBSTA2,ZERO       CLEAR CHANNEL STATUS IN CCB  @D34SDEP 03900034
00D1C6 9680 1002      00002       17996+         OI    CCBCOM1,TRABIT .   POST TRAFIC BIT              @DA01609 03950034
00D1CA 9500 008B      0008B       17997+         CLI   SVCCODE,X'00'        IS IT SVC 0                @DM06977 04050034
00D1CE 4770 D048      0D1FC       17998+         BNE   NOTPAPP            NO,GO NOT TO APP FOR SVC25   @DM06977 04100034
00D1D2 9140 100C      0000C       17999+         TM    CCBBY3,APPEN       APPEND.RTN PRESENT           @DM12858 04150034
00D1D6 47E0 D048      0D1FC       18000+         BNO   NOTPAPP            NO                           @DM12858 04200034
00D1DA 9140 A00C      0000C       18001+         TM    PIBASS,APPEN       TP APPEND.ALLOWED            @DM03220 04600034
00D1DE 47E0 D048      0D1FC       18002+         BNO   NOTPAPP            NO                           @DM03220 04650034
00D1E2 58E0 0778            00778 18003+         L     RE,APMGR           SET UP BASE                  @DM06977 04750034
                            082E6 18004+         USING PMGRADR,RE                                       @DM06977 04800034
00D1E6 4150 E4AA            08790 18005+         LA    R5,SVPFREE         SET UP FOR BTMOD             @DM06977 04850034
                                  18006+         DROP   RE                                              @DM06977 04900034
00D1EA 5880 100C            0000C 18007+IGNAPP   L     R8,CCBCSWW-1       GET ADDRESS OF APPEND.RTN    @DM12858 05000034
00D1EE 920C 087F      0087F       18008+         MVI   RID+D1,APPENDID    INDICATE WORKING IN APPEND.  @DY11952 05020034
00D1F2 0578                       18009+         BALR  R7,R8              AND BRANCH TO APPEND.RTN     @DM03220 05050034
00D1F4 47F0 D044      0D1F8       18010+         B     CHGRID             SIMULATE NORM.APPEND.EXIT    @DY11952 05070034
00D1F8 9204 087F      0087F       18011+CHGRID   MVI   RID+D1,REENTRID    INDICATE WORKING IN SVC ROUT @DY11952 05100034
                            0D1FC 18012+NOTPAPP  EQU   *                                                @DM03220 05150034
00D1FC 920C 1004      00004       18013+PSTCEDE  MVI   CCBSTA1,DEVEND+CHANEND SIM.CHAN.+DEVICE END     @DA01609 05250034
00D200 07F6                       18014+         BR    R6 .               EXIT                            PG403 05700034


00D202 4B30 B598            01598 18016+EXCP4    SH    R3,SYSLUBNO .      SET UP ABSOLUTE LUB NUMBER            05800034
00D206 950E 1007      00007       18017+         CLI   CCBLNO,LUBNO .     VALID LUB NUMBER?                     05850034
00D20A 47F0 D110      0D2C4       18018+         B     EXCP3 .            CONTINUE MAINLINE                     05900034


00D20E BD77 07E5            007E5 18020+EXCP9    CLM   R7,M7,EOCADDR+D1   ADDRESS IN REAL STORAGE      @DM11453 06600034
00D212 4720 09F2      009F2       18021+         BH    ERR25 .            NO,CANCEL USER                     EM 06650034
00D216 4170 7007            00007 18022+         LA    R7,CCWLNG+D1 .     POINT TO LAST BYTE OF CCW          EM 06700034
00D21A BD77 07E5            007E5 18023+         CLM   R7,M7,EOCADDR+D1   ADDRESS IN REAL STORAGE      @DM11453 06750034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D21E 4720 09F2      009F2       18024+         BH    ERR25 .             NO,CANCEL USER                      EM 06800034
00D222 47F0 D0AC      0D260       18025+         B     EXCP2 .             RETURN TO MAIN PROGRAM              EM 06850034



                                  0D226 18027+GETPUB   EQU   * .                 COMMON RTN FOR SVC 0,25,27,35,36Z0827 07000034
00D226 9200 09AA      009AA       18028+         MVI   ACCTRAID,JAOHID .  CHANGE ACCOUNTING ID TO OVERHEADZ0827 07100034
00D22A 4850 073C            0073C 18029+         LH    R5,STID .           LOAD SYSTEM TASK IDENTIFIER     Z0827 07200034
00D22E 1255                       18030+         LTR   R5,R5 .             SYSTEM TASK ACTIVE                  EM 07250034
00D230 4770 D0AC      0D260       18031+         BNZ   EXCP2 .             YES,SKIP VALIDATION                 EM 07300034
00D234 4121 000F            0000F 18032+         LA    R2,CCBLNG(R1) .     POINT R2 TO LAST BYTE OF CCB        AC 07350034
00D238 4580 B2D2            012D2 18033+         BAL   R8,VALID .          VALIDATE CCB ADDRESS                AC 07400034
00D23C 5870 1008            00008 18034+         L     R7,CCBCCW .         LOAD ADDRESS OF CCW                 EM 07450034
00D240 95FF 1006      00006       18035+         CLI   CCBCLS,XFF          TEST FOR DA FILE OPEN         @DA01307 07500034
00D244 4780 09F6      009F6       18036+         BE    ERR27               DA FILE NOT OPEN, BRANCH      @DA01307 07550034
00D248 91C0 1006      00006       18037+         TM    CCBCLS,BTAM+XCPR*1      EXCP REAL AND/OR BTAM     @DM01357 07850034
00D24C 4710 09EA      009EA       18038+         BO    ERR21 .             BTAM NOT SUPPORTED WITH       @DM01357 07900034
                                  18039+*                                   EXCP REAL OR IN THIS SUPERV   @DM01357 07950034
00D250 9180 1006      00006       18040+         TM    CCBCLS,XCPR .           EXCP REAL REQUEST         @DM01357 08000034
00D254 4710 D05A      0D20E       18041+         BO    EXCP9 .             YES,VALIDATE ALREADY TRANSL.  @DM01357 08050034
00D258 95FF 7000      00000       18042+         CLI   CCWCODE,XFF .       DUMMY INSTR.FOR VALIDATION OF CCW   EM 08100034
                                  0D25C 18043+PCKEXCP1 EQU   * .            PROGRAMCHECK MAY OCCUR AT THIS ADDR.  08150034
00D25C 95FF 7007      00007       18044+         CLI   CCWLNG+D1,XFF .     VALIDATE WHOLE CCW                  EM 08200034
                                  0D260 18045+PCKEXCP2 EQU   * .            PROGR.CHECK MAY OCCUR AT THIS ADDRESS 08250034
00D260 1B33                       18046+EXCP2    SR    R3,R3 .             CLEAR REGISTER                        08300034
00D262 1893                       18047+         LR    R9,R3 .             LR FASTER THAN SR                     08350034
                                  18048+* CHECK IF SYSTEM TASK PASSED PUB INDEX INSTEAD OF LUB INDEX   @D34SDEP 08400034
00D264 9108 1006      00006       18049+         TM    CCBCLS,CCBPHYAD .   IS PHYSICAL ADDRESSING USED @D34SDEP 08450034
00D268 47E0 D0D8      0D28C       18050+         BNO   EXCP25 .            NO, LOGICAL ADDRESSING USED @D34SDEP 08500034
00D26C 9500 073D      0073D       18051+         CLI   SELECT,ZERO         ISSUER MUST BE SYSTEM TASK  @D34SDEP 08550034
00D270 4780 09F6      009F6       18052+         BZ    ERR27 .             NO, USER NOT AUTHORIZED     @D34SDEP 08600034
00D274 4330 1007            00007 18053+         IC    R3,CCBLNO .         PICK UP PUB INDEX           @D34SDEP 08650034
                                  18054+* FILL REGISTER TO BE STORED INTO CHANQ ENTRY AT A LATER TIME  @D34SDEP 08700034
00D278 92FF B6E6      016E6       18055+         MVI   LUBDSPI,XFF .       SIMULATE PROG. LOGICAL UNIT @D34SDEP 08750034
00D27C 92FF B6E5      016E5       18056+         MVI   TIRSPT,XFF          SET IRS PTR UNUSED          @DY15773 08850034
00D280 4250 B6E4            016E4 18057+         STC   R5,REQIDI .         REQUESTOR ID                @D34SDEP 08900034
00D284 5850 B6E4            016E4 18058+         L     R5,TEMP2CHN .       LOAD PARM PASSING REG.      @D34SDEP 08950034
00D288 47F0 D13E      0D2F2       18059+         B     GETPUB2 .           CALCULATE PUB ADDRESS       @D34SDEP 09000034
                                  18060+* REQUEST IS FOR LOGICAL UNIT                                 @D34SDEP 09050034
                                  0D28C 18061+EXCP25   EQU   * .                                      @D34SDEP 09100034
00D28C 9503 073D      0073D       18062+         CLI   SELECT,RASID .      RAS REQUEST                 @DM00125 09200034
00D290 4770 D0EC      0D2A0       18063+         BNE   EXCP2A .            NO, NORMAL                  @DM00125 09250034
00D294 4330 1007            00007 18064+         IC    R3,CCBLNO .         GET LUBID                   @DM00125 09300034
                                  18065+* RAS USES THE ABSOLUTE LUB NUMBER IN THE CCB                 @DM00125 09350034
00D298 4190 00FF            000FF 18066+         LA    R9,XFF .            SET TO USER LUB             @DM00125 09400034
00D29C 47F0 D114      0D2C8       18067+         B     EXCP3A .            RETURN TO NORMAL RTN        @DM00125 09450034
                                  0D2A0 18068+EXCP2A   EQU   * .            COME HERE FOR NON-RAS       @DM00125 09500034
00D2A0 4390 1007            00007 18069+         IC    R9,CCBLNO .         GET RELATIVE LUB NUMBER               09600034
00D2A4 4330 A00D            0000D 18070+         IC    R3,PIBLUBID .       GET POINTER TO 1ST PROB.PROG. LUB.    09650034
00D2A8 1A39                       18071+         AR    R3,R9 .             GET POINTER TO LUB                    09700034
00D2AA 9136 1006      00006       18072+         TM    CCBCLS,NOLUBV .     VALID LUB CLASS                 EM 09750034
00D2AE 4770 09F6      009F6       18073+         BNZ   ERR27 .             NO,CANCEL                       EM 09800034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D2B2 9101 1006      00006       18074+         TM    CCBCLS,ONE .       PROGRAMMER OR SYSTEM UNIT          EM 09850034
00D2B6 4780 D04E      0D202       18075+         BZ    EXCP4 .            SYSTEM UNIT                        EM 09900034
00D2BA 4A90 B598            01598 18076+         AH    R9,SYSLUBNO        PARTITIONS LUB ENTRY         @DY15773 09950034
00D2BE D500 1007 A00E 00007 0000E 18077+         CLC   CCBLNO,PIBLUBNO .  IS LUB DEFINED                     10000034
00D2C4 47B0 09F6      009F6       18078+EXCP3    BNL   ERR27 .            NO,CANCEL                          10050034
00D2C8 4290 B6E6            016E6 18079+EXCP3A   STC   R9,LUBDSPI .      SET REL. SYSTEM LUB INDEX    @DM00125 10100034
00D2CC 92FF B6E5      016E5       18080+         MVI   TIRSPT,XFF         SET IRS PTR UNUSED           @DY15773 10150034
00D2D0 4250 B6E4            016E4 18081+         STC   R5,REQIDI .        STORE SYSTEM OR PROGRAM KEY        EM 10200034
00D2D4 5850 B6E4            016E4 18082+         L     R5,TEMP2CHN .      SAVE INFORM.FOR PART 2 OF CH.Q.ENT EM 10250034

                                  18084+*        GET PUB INDEX FROM LUB TABLE                                 10350034

00D2D8 1823                       18086+         LR    R2,R3 .            COPY LUB NUMBER                  473 10450034
00D2DA 1A22                       18087+         AR    R2,R2 .            GET LUB DISPLACEMENT              GS 10500034
00D2DC 4A20 069C            0069C 18088+         AH    R2,YLUBTAB .       POINT TO LUB ENTRY                GS 10550034
00D2E0 1B33                       18089+         SR    R3,R3 .            CLEAR REGISTER               @D33RDEM 10600034
00D2E2 4332 0000            00000 18090+         IC    R3,ZERO(R2) .      GET PUB INDEX                     GS 10650034
00D2E6 4930 B590            01590 18091+         CH    R3,LUBIGN .        IS LUB IGNORED OR UNASSIGNED     473 10700034
00D2EA 4720 09F4      009F4       18092+         BH    ERR26 .            UNASSIGNED                         10750034
00D2EE 4780 D002      0D1B6       18093+         BE    IGNLUB .           IGNORED                            10800034
00D2F2 8930 0003            00003 18094+GETPUB2   SLL   R3,L3 .           CALCULATE PUB DISPLACEMENT   @DL29H00 10850034
00D2F6 4A30 0690            00690 18095+         AH    R3,YPUBTAB .       SET UP PUB POINTER                 10900034
00D2FA D300 0870 3004 00870 00004 18096+         MVZ   DEVZON,PUBDEVTY .  GET ZONE OF DEVICE TYPE          Z0793 10950034
                                  18097+*                                 FOR SVC 25,27,35,36              Z0793 11000034
00D300 07FE                       18098+         BR    RE .               RETURN TO CALLING ROUTINE          11050034

00D302 4840 073C            0073C 18099+TSTFLPTR LH    R4,STID            TAKE TASK SEL CNTRL INFO     @DY14542 13158034
00D306 4154 D16E            0D322 18100+         LA    R5,RESERVT(R4)     CORRECT TABLE ENTRY          @DY14542 13160034
00D30A 95FF 5000      00000       18101+         CLI   D0(R5),XFF         RESERVED ENTRY FOR THIS TASK @DY14542 13162034
00D30E 077E                       18102+         BNER  RE                 YES, AVAILABLE               @DY14862 13164034
00D310 95FF 071C      0071C       18103+         CLI   FLPTR,XFF          IS CHANNEL QUEUE FULL        @DY14862 13168034
00D314 077E                       18104+         BNER  RE                 NO, CAN HANDLE REQUEST       @D34SDEP 13178034
00D316 9200 095F      0095F       18105+TSTFLP05 MVI   TRTCHQ,ZERO        SET SYSTEM CHANQ-BOUND       @DY14542 13180034
00D31A 4140 0079            00079 18106+         LA    R4,CHQBND          SET USER CHANNEL-QUEUE-BOUND @DY14542 13182034
00D31E 47F0 0FE0      00FE0       18107+         B     RESVCX             WILL RESVC WHEN ENTRY FREES  @D34SDEP 13184034


00D322 FFFFFFFFFFFFFFFF           18109+RESERVT  DC    16X'FF'            TABLE OF RESERVED CHANQ PTRS @DY14542 13188034
00D332                      0D323 18110+         ORG   RESERVT+SNSPTR-SYSPTR SNS TASK RESERVT ENTRY    @DY14542 13190034
00D323 C8                         18111+         DC    AL1((SNSRESQ-CHANQ)/8) SNS TASK CHANQ PTR      @DY14542 13192034
00D324                      0D324 18112+         ORG   RESERVT+DSKPTR-SYSPTR DSK TASK RESERVT ENTRY    @DY14542 13192234
00D324 C9                         18113+         DC    AL1((DSKRESQ-CHANQ)/8) DSK TASK CHANQ PTR      @DY14542 13192434
00D325                      0D325 18114+         ORG   RESERVT+RASPTR-SYSPTR RAS TASK RESERVT ENTRY    @DY14542 13192834
00D325 CA                         18115+         DC    AL1((RASRESQ-CHANQ)/8) RAS TASK CHANQ PTR      @DY14542 13193034
00D326                      0D329 18116+         ORG   RESERVT+SUPPTR-SYSPTR SUP TASK RESERVT ENTRY    @DY14542 13193434
00D329 CB                         18117+         DC    AL1((SUPRESQ-CHANQ)/8) SUP TASK CHANQ PTR      @DY14542 13193634
00D32A                      0D32B 18118+         ORG   RESERVT+CRTPTR-SYSPTR CRT TASK RESERVT ENTRY    @DY14862 13194134
00D32B CC                         18119+         DC    AL1((CRTRESQ-CHANQ)/8) CRT TASK CHANQ PTR      @DY14862 13194234
00D32C                      0D332 18120+         ORG   ,                  BACK                         @DY14542 13198034

00D332 00C8                       18122+RESERVX  DC    Y((SNSRESQ-CHANQ)/8) INDEX TO RESERVED CHANQ    @DY14862 13198234
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          0D334 18123+RESXTAB  EQU   *  INDEX TABLE TO ENTRIES IN RESERVT, WHICH     @DY14862 13198334
                                18124+*                  SHOULD BE IN THE SAME ORDER AS THE RESERVED  @DY14862 13198434
                                18125+*                  CHANNEL QUEUE ENTRIES.                       @DY14862 13198534
00D334 01                       18126+         DC    AL1(SNSPTR-SYSPTR) SNS RESERVT ENTRY POINTER    @DY14862 13198634
00D335 02                       18127+         DC    AL1(DSKPTR-SYSPTR) DSK RESERVT ENTRY POINTER    @DY14862 13198734
00D336 03                       18128+         DC    AL1(RASPTR-SYSPTR) RAS RESERVT ENTRY POINTER    @DY14862 13198934
00D337 07                       18129+         DC    AL1(SUPPTR-SYSPTR) SUP RESERVT ENTRY POINTER    @DY14862 13199134
00D338 0909                     18130+         DC    2AL1(CRTPTR-SYSPTR) CRT RESERVT ENTRY POINTER   @DY14862 13199334
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  18132+* INPUT PARAMETER: RF CONTAINS CHNL/UNIT ADDRESS                @DY15773 13200634


00D33A 88F0 0008            00008 18134+GETIRSBL SRL   RF,D8              GET CHNL NUMBER IN LOW ORDER @DY15773 13202234
00D33E 50E0 D1F8            0D3AC 18135+         ST    RE,GETIRSSV        SAVE REGISTER 14             @DY20090 13202634
00D342 1FEE                       18136+         SLR   RE,RE              CLEAR POINTER                @DY20090 13203034
00D344 95FF 4005      00005       18137+         CLI   CHQIRSPT,XFF       ALREADY BLOCK QUEUED         @DY15773 13203834
00D348 4780 D1A0      0D354       18138+         BE    GETIRS05           NO, GO GET ONE               @DY15773 13204634
00D34C 43F0 4005            00005 18139+         IC    RF,CHQIRSPT        GET POINTER                  @DY15773 13205434
00D350 47F0 D1D4      0D388       18140+         B     GETIRS12           GO CALCULATE ENTRY ADDRESS   @DY20090 13206234
00D354 41EF D1FC            0D3B0 18141+GETIRS05 LA    RE,RESIRST(RF)     CORRECT TABLE ENTRY          @DY20090 13207034
00D358 95FF E000      00000       18142+         CLI   D0(RE),XFF         RESERVED ENTRY AVAILABLE     @DY20090 13207534
00D35C 4770 D1CC      0D380       18143+         BNE   GETIRS10           YES, TAKE IT                 @DY15773 13208634
00D360 9502 073D      0073D       18144+         CLI   SELECT,DSK         DISK ERP REQUEST             @DY15773 13209434
00D364 4770 D1C0      0D374       18145+         BNE   GETIRS07           NO, TRY TO GET NORMAL ENTRY  @DY15773 13210234
00D368 41E0 D203            0D3B7 18146+         LA    RE,IRSDSKFP        FLPTR OF RESERVED ENTRIES    @DY20090 13211034
00D36C 95FF D203      0D3B7       18147+         CLI   IRSDSKFP,XFF       A RESERVED ENTRY AVAILABLE   @DY15773 13211834
00D370 4770 D1CC      0D380       18148+         BNE   GETIRS10           YES, TAKE IT                 @DY15773 13212634
00D374 95FF 0804      00804       18149+GETIRS07 CLI   IRSFLPTR,XFF       ALL ENTRIES IN USE           @DY15773 13213434
00D378 4780 D1F2      0D3A6       18150+         BE    GETIRSRT           YES, RETURN                  @DY15773 13214234
00D37C 41E0 0804            00804 18151+         LA    RE,IRSFLPTR        POINT TO FREE LIST POINTER   @DY20090 13214834
00D380 43FE 0000            00000 18152+GETIRS10 IC    RF,D0(RE)          INSERT FREE LIST POINTER     @DY20090 13215434
00D384 42F0 4005            00005 18153+         STC   RF,CHQIRSPT        QUEUE TO CHANNEL QUEUE ENTRY @DY15773 13216634
00D388 4CF0 080C            0080C 18154+GETIRS12 MH    RF,IRSLEN          MULTIPLY BY LENGTH           @DY15773 13217434
00D38C 5AF0 0804            00804 18155+         A     RF,AFRSTIRS        IRS BLOCK ADDRESS            @DY15773 13218234
                            00000 18156+         USING IRSADR,RF          ADDRESSABILITY               @DY15773 13219034
00D390 12EE                       18157+         LTR   RE,RE              WAS ENTRY AVAILABLE          @DY20090 13221434
00D392 4780 D1F2      0D3A6       18158+         BZ    GETIRSRT           YES, AND QUEUED              @DY20090 13221834
00D396 D746 F000 F000 00000 00000 18159+         XC    IRSBLOCK(IRSBLEN-L1),IRSBLOCK CLEAR IRS BLOCK @DY20090 13222034
00D39C D200 E000 F047 00000 00047 18160+         MVC   D0(L1,RE),IRSCHAIN NEXT ENTRY FIRST IN QUEUE  @DY20090 13222234
00D3A2 92FF F047      00047       18161+         MVI   IRSCHAIN,XFF       NO NEXT                      @DY20090 13223434
00D3A6 58E0 D1F8            0D3AC 18162+GETIRSRT L     RE,GETIRSSV        RESTORE REGISTER 14          @DY20090 13223634
00D3AA 07FE                       18163+         BR    RE                 RETURN TO CALLER             @DY15773 13223834

00D3AC 00000000                   18165+GETIRSSV DC    F'0'               REGISTER 14 SAVE AREA        @DY20090 13224234


00D3B0 FFFFFFFFFFFFFF             18167+RESIRST  DC    7X'FF'             RESERVED IRS POINTERS BY CHNL@DY15773 13228634
00D3B7                      0D3B0 18168+         ORG   RESIRST+0                                       @DY15773 13229434
00D3B0 00010203040506             18169+         DC    (6-0+1)AL1(*-RESIRST-0)                         @DY15773 13230234
00D3B7                      0D3B7 18170+         ORG   ,                                               @DY15773 13231034
00D3B7 07                         18171+IRSDSKFP DC    AL1((IRSDBLKS-FRSTIRS)/IRSBLEN) DSK IRS PTR     @DY15773 13231834
00D3B8 0009                       18172+IRSRESX  DC    Y((IRSABLKS-FRSTIRS)/IRSBLEN) INDEX TO NORMAL   @DY15773 13232634
00D3BA 00010203040506             18173+IRSRSXTB DC    (6-0+1)AL1(*-IRSRSXTB+0)           X TABLE      @DY15773 13233434
00D3C1 0707                       18174+         DC    2AL1(IRSDSKFP-RESIRST)                          @DY15773 13240034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  18176+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 13250034
                                  18177+*                                                                       * 13300034
                                  18178+* SVC 0: EXECUTE THE CHANNEL PROGRAM (EXCP)                             * 13350034
                                  18179+*                                                                       * 13400034
                                  18180+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 13450034

00D3C4                            18182+SVC00    DS    0H                 ENTRY POINT                    @DY14862 13550034
00D3C4 45E0 D14E          0D302   18183+         BAL   RE,TSTFLPTR        CHECK FOR FREE ENTRY           @D34EDAP 13560034
00D3C8 45E0 D072          0D226   18184+         BAL   RE,GETPUB .        INITIALIZE PUB POINTER                  13700034
00D3CC 941F 1002    00002         18185+THRET    NI    CCBCOM1,CLRCOM1 .  CLEAR CHAN. SCHED. BITS        @D30EULR 14250034
00D3D0 9405 1003    00003         18186+         NI    CCBCOM2,CLRCOM2 .  IN USER CCB                    @D30EULR 14300034
00D3D4 9200 1004    00004         18187+         MVI   CCBSTA1,ZERO .     CLEAR DEVICE STATUS IN CCB     @D30EULR 14350034
00D3D8 9200 1005    00005         18188+         MVI   CCBSTA2,ZERO       CLEAR CHANNEL STATUS IN CCB    @D30EULR 14400034
00D3DC 9500 073D    0073D         18189+         CLI   SELECT,ZERO        SYSTEM TASK REQUEST            @DY15256 14460034
00D3E0 4770 D280    0D434         18190+         BNE   NOPOW              YES, NOT SUPPORTED BY POWER    @DY15256 14470034
00D3E4 9500 0753    00753         18191+         CLI   TIK+1,X'00'        ATTENTION REQUEST              @D30EULR 14500034
00D3E8 4780 D280    0D434         18192+         BE    NOPOW              IF YES, DO NOT SPOOL           @D30EULR 14550034
00D3EC 58F0 0014          00014   18193+         L     RF,CRADDR          GET PARTITION COMREG           @D30EULR 14600034
                          00000   18194+         USING COMREG,RF          DECLARE ADDRESSABILITY         @DM11453 14650034
00D3F0 BFFF F0A0          000A0   18195+         ICM   RF,M15,POWPCB      ADDRESS PCB                    @D30EULR 14700034
                                  18196+         DROP  RF                                                @D30EULR 14750034
00D3F4 4780 D280    0D434         18197+         BZ    NOPOW              BRANCH IF PWR IS NOT ACTIVE    @D30EULR 14800034
                          00000   18198+         USING PDDS,RF            ADDRESSABILITY PCB             @D30EULR 14850034
00D3F8 5880 F014          00014   18199+         L     R8,PDNE            SET LOOP COUNTER               @D30EULR 14900034
00D3FC 5820 F020          00020   18200+         L     R2,PDPA            ADDRESS FIRST ENTRY            @D31EULR 14950034
                          00000   18201+         USING TLDS,R2            ADDRESSABILITY ENTRY           @D30EULR 15000034
00D400 5930 2000          00000   18202+SPLCOMP  C     R3,TLPU            IS THIS DEVICE TO BE SPOOLED   @D30EULR 15050034
00D404 4770 D278    0D42C         18203+         BNE   NOSPOOL            BRANCH IF NOT                  @D30EULR 15100034
00D408 4800 0752          00752   18204+         LH    R0,TIK             GET REQUESTOR ID               @D30EULR 15150034
00D40C 58F0 0754          00754   18205+         L     RF,APOWTB          ADDRESS POWER TABLE            @D30EULR 15200034
                          00000   18206+         USING PADS,RF            DECLARE ADDRESSABILITY         @D30EULR 15250034
00D410 58F0 F184          00184   18207+         L     RF,CA00            ADDRESS SVC 0 ROUTINE          @D30EULR 15300034
                                  18208+         DROP  RF                                                @D30EULR 15350034
00D414 058F                       18209+         BALR  R8,RF              ENTER SVC 0 ROUTINE            @D30EULR 15400034
00D416 47F0 D26C    0D420         18210+         B     RESVPWR            GO FOR RE-SVC                  @DY14687 15450034
00D41A 47F0 D280    0D434         18211+         B     NOPOW              RETURN NO SPOOLING             @D30EULR 15470034
00D41E 07F6                       18212+         BR    R6                 RETURN SPOOLING                @D30EULR 15490034
00D420 4140 0097          00097   18213+RESVPWR  LA    R4,PWSRVBND        POWER SERVICE BOUND            @DY15975 15510034
00D424 9200 097D    0097D         18214+         MVI   TRTPWSRV,ZERO      SET BOUND CONDITION            @DY15975 15520034
00D428 47F0 0FE0    00FE0         18215+         B     RESVCX             RE-SVC                         @DY14687 15530034
00D42C 4122 0010          00010   18216+NOSPOOL  LA    R2,TLLN(R2)        GET NEXT TCBL ENTRY            @D30EULR 15600034
                                  18217+         DROP  R2                                                @D30EULR 15650034
00D430 4680 D24C          0D400   18218+         BCT   R8,SPLCOMP         LOOP UNTILL ALL PROCESSED      @D30EULR 15700034
00D434                            18219+NOPOW    DS    0H                                                @D30EULR 15750034


                                  18221+************************************************************************ 15950034
                                  18222+*              CONSOLE BUFFERING ROUTINE :                       * 16000034
                                  18223+*              THIS ROUTINE BUFFERS USER WRITE REQUESTS FOR THE  * 16050034
                                  18224+*              CONSOLE TYPE WRITER. THIS IS ONLY DONE WHEN THE USER * 16100034
                                  18225+*              DOES NOT VIOLATE ONE OF THE FOLLOWING CONDITIONS: * 16150034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   18226+*                 NO DEVICE END POSTING                                 * 16200034
                                   18227+*                 NO ACCEPTING OF UNRECOVERABLE I/O ERRORS              * 16250034
                                   18228+*                 NO OWN I/O ERROR ROUTINE                              * 16300034
                                   18229+*                 NO SENSE INFORMATION WANTED                           * 16350034
                                   18230+*                 NO ADDRESSING EXCEPTION ON CCW/DATA                   * 16400034
                                   18231+*                 NO USER CCW TRANSLATION                              EM 16450034
                                   18232+*                 DATA FITS IN BUFFER                                   * 16500034
                                   18233+*                 COUNT FIELD DOES NOT GIVE A CHANNEL PROGRAM CHECK     * 16550034
                                   18234+*                 ALL BITS EXCEPT SLI BIT OFF IN CHAIN BYTE IN CCW      * 16600034
                                   18235+*********************************************************************** 16650034


00D434 D501 3000 07DC 00000 007DC 18237+         CLC   PUBCHANN,SYSOCDEV  IS IT CONSOLE REQUEST          @DY15708 16750034
00D43A 4770 D33E      0D4F2       18238+         BNE   NOCB1             NO                            @DY15708 16780034
00D43E 9115 1002      00002       18239+         TM    CCBCOM1,POSTDE+OWNUCRT+ACCUNRIO BRANCH IF DEVEND POSTLAV 16850034
00D442 4770 D33E      0D4F2       18240+         BNZ   NOCB1 .            /USERERR.RTN./ACC.UNR I/O ERR.          16900034
00D446 9160 100C      0000C       18241+         TM    CCBBY3,USENSE+APPEN BRANCH IF USER WANTS SENSE INFO    EM 16950034
00D44A 4770 D33E      0D4F2       18242+         BNZ   NOCB1 .            OR APPENDAGE EXIT                     EM 17000034
00D44E 9180 1006      00006       18243+         TM    CCBCLS,XCPR .      CHAN.PROG.ALREADY TRANSLATED          EM 17100034
00D452 4710 D33E      0D4F2       18244+         BO    NOCB1 .            YES,DO NOT BUFFER THIS REQUEST        EM 17150034
00D456 5870 1008            00008 18245+         L     R7,CCBCCW .        GET USER'S CCW                       LAV 17250034
00D45A 91F6 7000      00000       18246+CB1      TM    CCWCODE,XFF-WRACR .BRANCH IF NO                        LDR 17300034
00D45E 4770 D33E      0D4F2       18247+         BNZ   NOCB1 .            WRITE COMMAND                             17350034
00D462 91DF 7004      00004       18248+         TM    CCWCHAIN,XFF-SLI . BRANCH IF MORE THAN                435 17400034
00D466 4770 D33E      0D4F2       18249+         BNZ   NOCB1 .            SUPPRESS WRONG LENGTH IN CCW              17450034
00D46A D501 7006 B88A 00006 0188A 18250+         CLC   CCWLNG,CBMAX .     BRANCH IF DATA DOES NOT              LAV 17500034
00D470 4720 D33E      0D4F2       18251+         BH    NOCB1 .            FIT IN CONSOLE BUFFER                     17550034
00D474 9501 7007      00007       18252+         CLI   CCWLNG+1,L1 .      BRANCH IF DATA LENGTH                LAV 17600034
00D478 4740 D33E      0D4F2       18253+         BL    NOCB1 .            GIVES I/O ERROR                           17650034
00D47C 5820 7000            00000 18254+         L     R2,CCWADR .        GET USER'S DATA ADDRESS                   17700034
00D480 95FF 2000      00000       18255+         CLI   D0(R2),XFF .       VALIDATE FIRST BYTE OF USER DATA      EM 17750034
                                  0D484 18256+PCKCBF1  EQU   * .          PROGR.CHECK MAY OCCUR AT THIS ADDRESS 17800034
00D484 4A20 7006            00006 18257+         AH    R2,CCWLNG .        GET LAST BYTE                             17850034
00D488 0620                       18258+         BCTR  R2,R0 .            OF USER'S DATA                            17900034
00D48A 95FF 2000      00000       18259+         CLI   D0(R2),XFF .       VALIDATE LAST BYTE OF USER DATA       EM 17950034
                                  0D48E 18260+PCKCBF2  EQU   * .          USER IS CANCELED IF PROGR.CHECK       EM 18000034
                                        18261+*                           OCCURS AT THIS ADDRESS                EM 18050034
00D48E 5880 B88C            0188C 18262+         L     R8,CBNEXT .        GET NEXT ENTRY IN CBF POOL            EM 18100034
                                  00000 18263+         USING CBDSECT,R8 .                                      LAV 18150034
00D492 9180 800A      0000A       18264+         TM    CBCCBTI1,TRABIT .  BRANCH IF THIS ENTRY                 LAV 18200034
00D496 4710 D2F2      0D4A6       18265+         BO    CBFREE .           AVAILABLE                       @D002266 18250034
00D49A 4140 007D            0007D 18266+         LA    R4,CBFBND .        LOAD BOUND CONDITION            @D002266 18300034
00D49E 9200 0963      00963       18267+         MVI   TRTCBF,ZERO .      SET ALL CB USED CONDITION       @D002266 18350034
00D4A2 47F0 0FE0      00FE0       18268+         B     RESVCX .           SET PARTITION INACTIVE          @D002266 18400034
00D4A6 4140 8068            00068 18269+CBFREE   LA    R4,CB+L'CB .       GET NEXT ENTRY IN CBF POOL      @D002266 18450034
00D4AA 5940 B890            01890 18270+         C     R4,CBEND .         BRANCH IF NO WRAP                    EM 18500034
00D4AE 4740 D302      0D4B6       18271+         BL    NOWRAP .           AROUND NECESSARY                          18550034
00D4B2 5840 B894            01894 18272+         L     R4,CBTABAD .       WRAP AROUND                          EM 18600034
00D4B6 5040 B88C            0188C 18273+NOWRAP   ST    R4,CBNEXT .        SAVE ADDRESS OF NEXT ENTRY           EM 18650034
00D4BA 941F 800A      0000A       18274+         NI    CBCCBTI1,CLRCOM1 . CLEAR CHAN.SCHED. BITS             Z0793 18700034
00D4BE 5820 7000            00000 18275+         L     R2,CCWADR .        GET USER'S DATA ADDRESS                   18750034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D4C2 4840 7006            00006 18276+         LH    R4,CCWLNG .        GET USER'S DATA LENGTH             EM 18800034
00D4C6 4240 8007            00007 18277+         STC   R4,CBCCWBC+1 .     SET DATA LENGTH IN CBF CCW         EM 18850034
00D4CA 0640                       18278+         BCTR  R4,0 .             PREPARE FOR EXECUTE OF MVC         EM 18900034
00D4CC 4440 B884            01884 18279+         EX    R4,CBMVC .         MOVE USER'S DATA TO BUFFER         EM 18950034
00D4D0 D200 8000 7000 00000 00000 18280+         MVC   CBCCWCC,CCWCODE .  TAKE USER'S COMMAND CODE          LAV 19000034
00D4D6 D200 8004 7004 00004 00004 18281+         MVC   CBCCWCB,CCWCHAIN . TAKE USER'S CHAIN BYTE            LAV 19050034
00D4DC D201 800E 1006 0000E 00006 18282+         MVC   CBCCBUN,CCBCLS .   TAKE USER'S SYMBOLIC UNIT         485 19100034
00D4E2 9680 1002      00002       18283+         OI    CCBCOM1,TRABIT .   POST TRAFFIC BIT IN USER'S CCB    LAV 19150034
00D4E6 4110 8008            00008 18284+         LA    R1,CBCCB .         TAKE CBF'S CCB INSTEAD OF USER'S  LAV 19200034
00D4EA 9405 1003      00003       18285+         NI    CCBCOM2,CLRCOM2 .  IN CBF'S CCB                       EM 19250034
00D4EE 47F0 D368      0D51C       18286+         B     EXCP8 .            SKIP CCW TRANSLATION               EM 19300034
                            00000 18287+         USING SVEARA,R8 .        RESTORE ORIGINAL USING            LAV 19350034
                                  18288+*********************************************************************** 19400034


00D4F2                            18290+NOCB1    DS    0H                                          @D30EULR 19500034
00D4F2 9500 073D      0073D       18291+         CLI   SELECT,ZERO .      SYSTEM TASK ACTIVE FOR THIS USER   EM 19600034
00D4F6 4770 D368      0D51C       18292+         BNZ   EXCP8 .            YES,SKIP CCW TRANSLATION           EM 19650034
00D4FA D503 07E4 0024 007E4 00024 18293+         CLC   EOCADDR,SVOLDADR   REQUEST FROM VIRTUAL MEMORY? @DM11453 19700034
00D500 47D0 D358      0D50C       18294+         BNH   TRLCCW             YES, TRANSLATE CCW'S         @DL29ZCF 19750034
00D504 9180 A004      00004       18295+         TM    PIBDATFL,TRAM      IS PARTITION VIRTUAL         @DL29ZCF 19800034
00D508 4780 D368      0D51C       18296+         BZ    EXCP8              NO, SKIP CCW TRANSLATE       @DL29ZCF 19850034
                            0D50C 18297+TRLCCW   EQU   *                                             @DL29ZCF 19900034
00D50C 9180 1006      00006       18298+         TM    CCBCLS,XCPR .      EXCP WITH PAR. REAL                EM 20000034
00D510 4710 D368      0D51C       18299+         BO    EXCP8 .            YES,TEST IF SUP. FOR THE DEV.@D30EULR 20050034
                                  18300+*                                 AND SKIP CCW TRANSLATION     @DM03501 20100034
00D514 5890 077C            0077C 18301+         L     R9,ACCWT .         SET BASE REGISTER FOR CCWT RTN.    EM 20200034
                            06B70 18302+         USING CCWTADR,R9 .                                       JAB 20250034
00D518 4580 915C            06CCC 18303+         BAL   R8,CCWTRANS .      DO CCW TRANSLATION                 JAB 20300034
                            0D51C 18304+EXCP8    EQU   *                                             @D34ADAP 20350034
                            02EDA 18305+         USING INTRTN,R9          REESTABLISH OLD ADDRESSABLTY @D34ADAP 20900034
00D51C 9200 087F      0087F       18306+         MVI   RID+D1,SYSTEMID .  INDICATE SYSTEM TO PAGE FAULT FLIH EM 21300034
00D520 4890 073C            0073C 18307+EXCP10   LH    R9,STID            TAKE TASK SEL CNTRL INFO     @DY14542 21700034
00D524 4179 D16E            0D322 18308+         LA    R7,RESERVT(R9)     CORRECT TABLE ENTRY          @DY14862 21705034
00D528 95FF 7000      00000       18309+         CLI   D0(R7),XFF         RESERVED ENTRY AVAILABLE     @DY14862 21710034
00D52C 4770 D380      0D534       18310+         BNE   EXCP10C            YES                          @DY14862 21715034
00D530 4170 071C            0071C 18311+         LA    R7,FLPTR           POINT TO FREE LIST POINTER   @DY14862 21721034
00D534 4397 0000            00000 18312+EXCP10C  IC    R9,D0(R7)          INSERT FREE LIST POINTER     @DY14862 21727034
00D538 1849                       18313+         LR    R4,R9              COPY FREE LIST POINTER       @DY14862 21733034
00D53A 8940 0003            00003 18314+         SLL   R4,L3              CHANNEL QUEUE OFFSET         @DY14542 21745034
00D53E 5A40 071C            0071C 18315+         A     R4,ACHANQ          CHANNEL QUEUE ENTRY ADDRESS  @DY14542 21750034
00D542 4350 4000            00000 18316+         IC    R5,CHQCHAIN        MAKE NEXT FREE ENTRY         @DY14542 21755034
00D546 4257 0000            00000 18317+         STC   R5,D0(R7)          FIRST IN THE QUEUE           @DY14862 21760034
00D54A 4350 0753            00753 18318+         IC    R5,TIK+1           INSERT USER KEY              @DY14862 21765034
00D54E 5050 4004            00004 18319+         ST    R5,CHQIDS .        AND STORE ALL ID.IN CHANNEL QUEUE JAB 21785034
00D552 5010 4000            00000 18320+         ST    R1,CHQCCBAD .      PUT CCB ADDRESS IN CHANNEL QUEUE  127 21800034
00D556 92FF 4000      00000       18321+         MVI   CHQCHAIN,XFF .     SET END OF CHAIN CODE              435 21850034
00D55A D300 0870 3004 00870 00004 18322+         MVZ   DEVZON,PUBDEVTY .  GET ZONE OF DEVICE TYPE          Z0793 21900034
00D560 9501 4004      00004       18323+         CLI   REQID,SNS          IS THIS SENSE TASK REQUEST   @D34SDAP 21910034
00D564 4780 D3EA      0D59E       18324+         BE    NOSO1              YES, SKIP SPECIAL PROCESSING @D34SDAP 21920034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D568 9180 100C      0000C       18326+         TM    CCBBY3,ERRTIN .    IS THIS ERP REQUEST          @DA00214 22050034
00D56C 4710 D3EA      0D59E       18327+         BO    RMSUSE4 .          YES , DO NOT COUNT USAGE     @DA00214 22100034
00D570 5880 075C            0075C 18328+         L     R8,RFTABAD .       GET ADDRESS OF RF TABLE      @DA00214 22150034
                            137D8 18329+         USING RFTABLE,R8 .       DECLARE BASE                 @DA00214 22200034
00D574 1873                       18330+         LR    R7,R3 .            COPY PUB POINTER             @DA00214 22250034
00D576 4930 0690            00690 18331+         CH    R3,YPUBTAB .       IS IT HEAD QUEUE REQUEST     @DM01647 22300034
00D57A 47B0 D3CE      0D582       18332+         BNL   EXCP10A .          NO,PUBADR OK                 @DM01647 22350034
00D57E 4870 3008            00008 18333+         LH    R7,PUBPTR .        LOAD ADDRESS OF ORIGINAL PUB @DM01647 22400034
00D582 4B70 0690            00690 18334+EXCP10A  SH    R7,YPUBTAB .       GET INDEX TO PUB             @DM01647 22450034
00D586 8870 0002            00002 18335+         SRL   R7,L2 .            GET INDEX TO                 @DA00214 22500034
00D58A 4877 8034            1380C 18336+         LH    R7,RFP2ITAB(R7) .   PUB2TABLE                  @DA00214 22550034
00D58E 5A70 8030            13808 18337+         A     R7,RFP2ENT .       POINT TO PROPER PUB2         @DA00214 22600034
                            00000 18338+         USING PUB2ADR,R7 .       DECLARE BASE FOR PUB2        @DA00214 22650034
00D592 BF87 7000            00000 18339+         ICM   R8,M7,P2USAGE .    GET OLD USAGE                @DA00214 22700034
00D596 4188 0001            00001 18340+         LA    R8,D1(R8) .        UPDATE USAGE                 @DA00214 22750034
00D59A BE87 7000            00000 18341+         STCM  R8,M7,P2USAGE .    STORE UPDATED USAGE          @DA00214 22800034

                            0D59E 18343+RMSUSE4  EQU   * .                                           @DA00214 22900034
                            00000 18344+         USING CCWADR,R7 .        DECLARE BASE                 @DA00214 22950034
                            00000 18345+         USING SVEARA,R8 .        MAKE SAVEAREA ADDRESSABLE    @DA00214 23000034
                            0D59E 18346+NOSO1    EQU   *                                             @DZ13650 26350034
00D59E 1854                       18347+QUEIOREQ LR    R5,R4              TAKE OVER IN R5              @DZ13650 26353034
00D5A0 4180 3002            00002 18348+         LA    R8,PUBCHQPT-(CHQCHAIN-CHQADR) POINT TO POINTER @DZ13650 26356034
                            00000 18349+         USING CHQADR,R8          CHANQ ADDRESSABILITY         @DZ13650 26359034
00D5A4 1879                       18350+         LR    R7,R9              CLEAR BYTES 0-2 OF R7        @DZ13650 26362034
00D5A6 95FF 8000      00000       18351+EXCP5    CLI   CHQCHAIN,NOTQUED   ALREADY REQUEST OR END       @DZ13650 26365034
00D5AA 4780 D40E      0D5C2       18352+         BE    EXCP6              NO                           @DZ13650 26368034
00D5AE 4370 8000            00000 18353+         IC    R7,CHQCHAIN        GET CHANQ INDEX              @DZ13650 26371034
00D5B2 1887                       18354+         LR    R8,R7              COPY INDEX TO R8             @DZ13650 26374034
00D5B4 8980 0003            00003 18355+         SLL   R8,L3              CALCULATE DISPLACEMENT       @DZ13650 26377034
00D5B8 5A80 071C            0071C 18356+         A     R8,ACHANQ          POINT TO CHANNEL QUEUE ENTRY @DZ13650 26380034
00D5BC 1848                       18357+         LR    R4,R8              TAKE OVER IN R4              @DZ13650 26383034
00D5BE 47F0 D3F2      0D5A6       18358+         B     EXCP5              LOOK FOR END OF CHAIN        @DZ13650 26386034

00D5C2 4290 8000            00000 18360+EXCP6    STC   R9,CHQCHAIN        ADD NEW REQUEST TO CHAIN     @DZ13650 26392034
00D5C6 D500 8000 3002 00000 00002 18361+         CLC   CHQCHAIN,PUBCHQPT  FIRST REQUEST                @DZ13650 26446034
                            00000 18362+         USING SVEARA,R8          STANDARD ADDRESSING          @DZ13650 26449034
00D5CC 0776                       18363+         BNER  R6                 NO, EXIT TO TASK SELECTION   @DZ13650 26455034

00D5CE 9103 3007      00007       18365+         TM    PUBJCFLG,HQIPR .   HEAD QUEUE ACTIVE            @DM01647 26500034
00D5D2 0776                       18366+         BCR   NZ,R6 .            DO NOT START IO              @DM01647 26550034
00D5D4 4930 0690            00690 18367+         CH    R3,YPUBTAB .       IS IT HEADQUEUE REQUEST      @DA00541 26600034
00D5D8 47B0 D43A      0D5EE       18368+         BNL   GIOADR1 .          NO, CONTINUE                 @DA00541 26650034
00D5DC 4870 3008            00008 18369+         LH    R7,PUBPTR .        POINT TO ORIGINAL PUB        @DA00541 26700034
                            00000 18370+         USING PUBADR,R7 .        PROVIDE ADDRESSABILITY       @DA00541 26750034
00D5E0 9180 7006      00006       18371+         TM    PUBCSFLG,DEVBSY .  IS DEVICE 'NORMAL' BUSY      @DA00541 26800034
00D5E4 4780 D43A      0D5EE       18372+         BZ    GIOADR1 .          NO, CONTINUE                 @DA00582 26850034
00D5E8 9110 7006      00006       18373+         TM    PUBCSFLG,QEDERR .  IS DEVICE QUEUED FOR ERROR   @DA00582 26900034
00D5EC 0786                       18374+         BCR   Z,R6 .             NO, EXIT                     @DA00582 26950034
                            00000 18375+         USING CCWADR,R7 .        RESET STANDARD USING         @DA00541 27000034
                            00000 18376+         USING PUBADR,R3 .        RESET STANDARD USING         @DA00541 27050034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D5EE 1856                      18377+GIOADR1  LR    R5,R6 .            COPY EXIT POINTER                      27100034
00D5F0 94FB 0739      00739      18378+         NI    SYSFLAG2,XFF-AFTIOINT   SET AFTER INT. BIT OFF  @DL29Y00 27150034
00D5F4 9198 3006      00006      18379+GIOADR   TM    PUBCSFLG,DEVBSY+QEDERR+OPINTV DEVICE BUSY OR IN ERROR    27200034
00D5F8 0775                      18380+         BCR   NZ,R5 .            YES,EXIT                               27250034
00D5FA 4820 3000            00000 18381+         LH    R2,PUBCHANN .      LOAD CHANNEL AND UNIT                  27500034
00D5FE D201 DA84 DA86 0DC38 0DC3A 18382+         MVC   MPXWKCNT,MPXRTCNT  SET UP RETRY COUNT           @DA02845 27600034
00D604 9214 DA83      0DC37      18383+         MVI   MPXRSCNT+D1,MPXRSNUM SET UP RETRY COUNT         @DY13380 27620034
00D608 1872                      18384+         LR    R7,R2              GET CHANNEL NUMBER           @DY13441 27850034
00D60A 8870 0008            00008 18385+         SRL   R7,D8              IN LOW ORDER BYTE            @DY13441 27880034
00D60E 4377 08F6            008F6 18386+         IC    R7,CHNDIS(R7) .    CALCULATE DISPLACEMENT                 27950034
00D612 5A70 0734            00734 18387+         A     R7,ACHNTAB .       SET POINTER TO CHANNEL TABLE           28000034
00D616 5070 DA90            0DC44 18388+         ST    R7,CHENTAD         SAVE POINT.TO CHAN.TAB       @DM03715 28050034
00D61A 9500 7001      00001      18389+         CLI   D1(R7),ZERO        IS CHANNEL QUEUED IN ERROR   @D34SDAP 28058034
00D61E 4780 D47E      0D632      18390+         BE    GIOADR2            NO, CONTINUE NORMAL          @D34SDAP 28066034
00D622 910F 4004      00004      18391+         TM    REQID,X'0F'        IS THIS A SYSTEM TASK REQ    @D34SDAP 28074034
00D626 0785                      18392+         BZR   R5                 NO, THEN DONT START          @DM11632 28075034
00D628 9502 4004      00004      18393+         CLI   REQID,DSK          IS IT DISK-OR SENSE TASK     @D34SDAP 28080034
00D62C 0725                      18394+         BHR   R5                 NO, THEN DONT START REQUEST  @DM11632 28081034
00D62E 47F0 D4A6      0D65A      18395+         B     AVAIL              YES, THEN GET IT STARTED     @D34SDAP 28090034
00D632 9110 7000      00000      18396+GIOADR2  TM    D0(R7),MPXCHN      BYTE MULTIPLEXER CHANNEL     @D34SDAP 28100034
00D636 4710 DA94      0DC48      18397+         BO    BRSROUT .          YES,TEST FOR BMPX                      28350034
00D63A 4920 07DC            007DC 18398+         CH    R2,SYSOCDEV        IS THIS THE OPERATOR CONSOLE @DY14254 28710034
00D63E 4780 D4A6      0D65A      18399+         BE    AVAIL              YES, DON'T TEST CHANNEL      @DY14254 28720034
00D642 9F00 2000      00000      18400+TCH      TCH   0(R2) .            TEST CHANNEL                           28750034
00D646 4790 D4A6            0D65A 18401+         BC    9,AVAIL .          BRANCH IF AVAILABLE                    28850034
00D64A 0726                      18402+         BCR   2,R6 .             BUSY, EXIT                             29100034
00D64C 95B0 3004      00004      18403+         CLI   PUBDEVTY,T3277 .   DON'T ALLOW PENDING ATTENTION          29550034
00D650 4780 D4A6      0D65A      18404+         BE    AVAIL .            ON 3277 TO CAUSE SYSTEM WAIT           29600034
00D654 95C0 3004      00004      18405+         CLI   PUBDEVTY,T2260 .   DON'T ALLOW PENDING ATTENTION          29650034
00D658 0776                      18406+         BCR   NE,R6 .            ON 2260 TO CAUSE SYSTEM WAIT           29900034
                            0D65A 18407+AVAIL    EQU   *                                             @DY13104 31950034
00D65A 9568 3004      00004      18408+         CLI   PUBDEVTY,T3340     NEED TO FILL IN SIZE         @DY13104 31956034
00D65E 4770 D4C2      0D676      18409+         BNE   NOSIZE             NO                           @DY13104 31959034
00D662 950F 4004      00004      18410+         CLI   REQID,SVT          SERVICE TASK ITSELF          @DY13104 31962034
00D666 4780 D4C2      0D676      18411+         BE    NOSIZE             YES, LET IT GO               @DY13104 31965034
00D66A 58D0 0874            00874 18412+         L     RD,ASERTASK        ADDRESS OF SERVICE TASK      @DY13104 31968034
00D66E 45ED 00F0            000F0 18413+         BAL   RE,SERADD-SERTASK(RD) ACTIVATE SERVICE TASK    @DY13104 31971034
00D672 47F5 0000      00000      18414+         B     D0(R5)             DO NOT START RETURN POINT    @DY13104 31974034
                            0D676 18415+NOSIZE   EQU   *                                             @DY13104 31983034
00D676 5870 1008            00008 18416+         L     R7,CCBCCW .        LOAD CCW ADDRESS             @DY13104 31989034
00D67A D300 0870 3004 00870 00004 18417+         MVZ   DEVZON,PUBDEVTY .  GET ZONE OF DEVICE TYPE      @DA06331 32000034
00D680 9501 4004      00004      18418+         CLI   REQID,SNS          IS THIS A SNS-TASK REQUEST   @D34SDAP 32010034
00D684 4780 D7F8      0D9AC      18419+         BE    STRTIO             YES, GET IT STARTED          @D34SDAP 32020034
00D688 1897                      18420+         LR    R9,R7 .            KEEP POINTER TO CCW ALSO IN REG 9  EM 32100034
00D68A 9180 1006      00006      18421+         TM    CCBCLS,XCPR .      CHAN.PROG. TRANSLATED BY USER      EM 32150034
00D68E 47E0 D4F2      0D6A6      18422+         BNO   NOXCPR2 .          NO,SYSTEM TRANSLATION              EM 32200034
00D692 4560 B18C            0118C 18423+         BAL   R6,VIRTAD .       ADDRESS OF TRANSL.CHAN.PROG.       EM 32250034
00D696 5860 086C            0086C 18424+         L     R6,DISPAD .        RESTORE DISPATCHER ADDRESS   @DM05356 32300034
00D69A 129F                      18425+         LTR   R9,RF .            VALID VIRTUAL ADDRESS,KEEP IT IN R9EM 32350034
00D69C 4770 D4F2      0D6A6      18426+         BNZ   NOXCPR2            ADDRESS VALID                @DY15980 32400034
00D6A0 1277                      18427+         LTR   R7,R7              IF INPUT WAS NOT ZERO        @DY15980 32410034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D6A2 4770 0A32      00A32       18428+         BNZ   ERR38              CANCEL THE USER              @DY15980 32420034
                                  18429+*                                                                      32450034
                                  18430+*IF THE USER HAS DONE PRIVATE CCW TRANSLATION THE REAL ADDRESS OF THE   32500034
                                  18431+*CHANNEL PROGRAM IS NOT EQUAL TO THE VIRTUAL ONE.THEREFORE THE REAL     32550034
                                  18432+*ADDRESS IS KEPT IN REG 7 AND USED WHENEVER IT IS NEEDED FOR I/O.       32600034
                                  18433+*THE VIRTUAL ADDRESS IS USED WHENEVER AN INSTRUCTION REFERS TO A CCW.   32650034
                                  18434+*THIS ADDRESS IS KEPT IN REGISTER 9.                               EM  32700034
                                  18435+*                                                                      32750034
                        00000     18436+         USING CCWADR,R9 .          USE VIRTUAL ADDRESS OF CCW       EM  32800034
                        0D6A6     18437+NOXCPR2  EQU   * .                                                EM  32850034
00D6A6 9560 0870      00870       18438+         CLI   DEVZON,DASD .        IS DEVICE DASD                344 33000034
00D6AA 4780 D53A      0D6EE       18439+         BE    WELDASD .            BRANCH IF YES                 344 33050034
00D6AE 9580 0870      00870       18440+         CLI   DEVZON,T3540         TEST FOR DISKETTE          @DL29R01 33100034
00D6B2 4780 D53A      0D6EE       18441+         BE    WELDASD              BRANCH IF YES              @DL29R01 33150034
00D6B6 9501 4006      00006       18442+         CLI   LUBDSP,SYSIPT .      IS REQUEST FOR SYSRDR OR SYSIPT 344 33250034
00D6BA 4720 D53A      0D6EE       18443+         BH    WELDASD .            BRANCH IF NOT                 334 33300034
00D6BE 9510 3004      00004       18444+         CLI   PUBDEVTY,T2501       IS DEVICE 2501             @DY11765 33306034
00D6C2 4770 D532      0D6E6       18445+         BNE   CHKJDUN              NO, GO CHECK JDUN          @DY11765 33312034
00D6C6 9180 1008      00008       18446+         TM    CCBCCW,FAST2501      LIOCS READ AHEAD REQUEST   @DY11765 33318034
00D6CA 4780 D52E      0D6E2       18447+         BZ    OFF2501              NO, FOR SURE RESET SWITCH  @DY11765 33324034
00D6CE 9104 3007      00007       18448+         TM    PUBJCFLG,EOF2501     END OF FILE PROCESSED      @DY11765 33330034
00D6D2 4780 D532      0D6E6       18449+         BZ    CHKJDUN              NO, GO CHECK JDUN          @DY11765 33336034
00D6D6 94FB 3007      00007       18450+         NI    PUBJCFLG,XFF-EOF2501 RESET EOF SWITCH           @DY11765 33342034
00D6DA 5890 070C            0070C 18451+         L     R9,AINTER .          SET BASE FOR I/O INTERRUPT @D33LDAP 33750034
                            02EDA 18452+         USING INTRTN,R9 .          ESTABLISH ADDRESSABILIY    @D33LDAP 33800034
00D6DE 47F0 9352      0322C       18453+         B     TRNOFF .             DEQUEUE ENTRY FROM QUEUE   @D33LDAP 33850034
                      00004 18454+EOF2501  EQU   X'04'                  END OF FILE DETECTED ON 2501 @DY11765 33854034
00D6E2 94FB 3007      00007       18455+OFF2501  NI    PUBJCFLG,XFF-EOF2501 RESET EOF SWITCH           @DY11765 33858034
00D6E6 9120 A00F      0000F       18456+CHKJDUN  TM    PIBFLG2,JOBDUN       HAS /& BEEN READ           @DY11765 33862034
00D6EA 4710 0A22      00A22       18457+         BO    ERR30                YES, ERROR                 @DY11765 33866034
                            00000 18458+         USING CCWADR,R9            SET OLD ADDRESSABILITY     @DA10458 33900034
                            0D6EE 18459+WELDASD  EQU   * .                                                344 33950034
00D6EE 9104 100C      0000C       18460+         TM    CCBBY3,OLTP .        IS IT AN OLTEP REQUEST        RJI 34050034
00D6F2 4710 D7F8      0D9AC       18461+         BO    STRTIO .             YES BYPASS CCW MODIFICATION   RJI 34100034
00D6F6 9504 4006      00006       18462+         CLI   LUBDSP,SYSLOG .      REQUEST FOR SYSLOG                34200034
00D6FA 4780 DAA6      0DC5A       18463+         BE    LOGPRC .             YES,SET UP PREFIX                 34250034
00D6FE 9550 0870      00870       18464+         CLI   DEVZON,TAPES .       IS DEVICE TAPE                    34400034
00D702 4770 D606      0D7BA       18465+         BNE   NOTTAPE .            NO,SKIP                           34450034
00D706 9551 3004      00004       18466+         CLI   PUBDEVTY,T2495TC .   2495 TAPE CARTRIDGE READER      34500034
00D70A 4780 D606      0D7BA       18467+         BE    NOTTAPE .            YES,DO NOT TREAT AS TAPE          34550034
00D70E 45E0 B292            01292 18468+         BAL   RE,RMSGETP2 .        GO GET PUB2 ADDRESS               34600034
00D712 5080 D988            0DB3C 18469+         ST    R8,CURRPUB2                                    @DY14439 34620034
                            00000 18470+         USING PUB2ADR,R8 .         DECLARE BASE FOR PUB2             34650034
00D716 9124 8008      00008       18471+         TM    P2TFLG1,P2TECPT+P2TERP NORMAL USER REQUEST           34700034
00D71A 4780 D5A8      0D75C       18472+         BZ    RMST02 .             YES,SKIP                          34750034
00D71E 18E9                       18473+         LR    RE,R9 .              SAVE VIRTUAL ADDRESS OF CCW   EM  34850034
                            02EDA 18474+         USING INTRTN,R9            RESTORE USING FOR I/O INTERRUPT EM 34900034
00D720 5890 070C            0070C 18475+         L     R9,AINTER .          SET BASE FOR I/O INTERRUPT        35000034
00D724 9104 8008      00008       18476+         TM    P2TFLG1,P2TECPT .    EXCEPTIONAL CONDITION             35050034
00D728 47E0 D586      0D73A       18477+         BNO   RMST02A              NO                         @DA06398 35100034
00D72C D201 0044 B590 00044 01590 18478+         MVC   DEVSTA(L2),NOTOP     SET EXCEPTIONAL CONDITION  @DM11632 35130034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D732 4020 00BA            000BA 18479+         STH   R2,CHNADR           SET UP I/O INT CODE          @DY13441 35140034
00D736 47F0 9A64      0393E       18480+         B     INTTRANS            SET UP DUMMY ERROR ENTRY     @DM11632 35160034
                            0D73A 18481+RMST02A  EQU   *                                                @DA06398 35250034
                            00000 18482+         USING CCWADR,R9           POINT AGAIN TO VIRTUAL CCW         EM 35350034
00D73A 189E                       18483+         LR    R9,RE .             POINT TO VIRTUAL ADDR.OF CCW       EM 35400034
00D73C 9503 4004      00004       18484+         CLI   REQID,RASID .       RAS REQUEST                  @DM00212 35500034
00D740 4780 D5A8      0D75C       18485+         BE    RMST02 .            YES,IGNORE ERP OPTION        @DM00212 35550034
00D744 941F 1002      00002       18486+         NI    CCBCOM1,CLRCOM1     CLEAR CHAN. SCHED. BITS      @DA01157 35600034
00D748 9405 1003      00003       18487+         NI    CCBCOM2,CLRCOM2     IN USER CCB                  @DA01157 35650034
00D74C 9200 1004      00004       18488+         MVI   CCBSTA1,ZERO        CLEAR DEVICE STATUS IN CCB   @DA01157 35700034
00D750 9200 1005      00005       18489+         MVI   CCBSTA2,ZERO        CLEAR CHANNEL STATUS IN CCB  @DA01157 35750034
00D754 9101 8008      00008       18490+         TM    P2TFLG1,P2TREST     RESTART USERS CHAIN REQUEST  @DA07677 35800034
00D758 4780 D5C8      0D77C       18491+         BZ    RMST10              NO,ERP REQUEST               @DA07677 35850034
00D75C 9504 9000      00000       18492+RMST02   CLI   CCWCODE,RSENS .     IS THIS A SENSE COMMAND                35900034
00D760 4780 D7F8      0D9AC       18493+         BE    STRTIO .            YES  DO NOT CHAIN IN MODE              35950034
00D764 5070 B838            01838 18494+         ST    R7,TAPECCW2 .       TIC TO USER STRING                     36000034
00D768 9208 B838      01838       18495+         MVI   TAPECCW2,TIC .      RESTORE TIC COMMAND CODE               36050034
00D76C 4370 3005            00005 18496+RMST05   IC    R7,PUBOPTN .        GET PROPER MODE FROM PUB               36100034
00D770 4270 B830            01830 18497+         STC   R7,TAPECCW1 .       AND STORE IN CCW                       36150034
00D774 4170 B830            01830 18498+         LA    R7,TAPECCW1 .       GET ADDRESS OF MODE CCW                36200034
00D778 47F0 D7F8      0D9AC       18499+         B     STRTIO .            GO TO START I/O                        36250034


00D77C 5070 B840            01840 18501+RMST10   ST    R7,TAPECCW3 .       SET TIC TO USER STRING                 36350034
00D780 9208 B840      01840       18502+         MVI   TAPECCW3,TIC .      RESTORE TIC COMMAND CODE               36400034
00D784 9112 8008      00008       18503+         TM    P2TFLG1,P2TREPO+P2TROR REPOSITION OR READ OPPOSITE       36450034
00D788 4780 D5DE      0D792       18504+         BZ    RMST15 .            NO,DON'T COPY ERP CCW                  36500034
00D78C D207 B840 8018 01840 00018 18505+         MVC   TAPECCW3,P2TWORKA .COPY ERP CCW                        36550034
00D792 41E0 8014            00014 18506+RMST15   LA    RE,P2ORGTIE .       POINT TO ORIGINAL TIE BYTE             36600034
00D796 9108 8008      00008       18507+         TM    P2TFLG1,P2TIEORG .  ORIGINAL TIE FLAG ON                   36650034
00D79A 4710 D5EE      0D7A2       18508+         BO    RMST20 .            YES THEN ADDRESS IS CORRECT            36700034
00D79E 41EE 0001            00001 18509+         LA    RE,D1(RE) .         NO,  POINT TO OPPOSITE TIE       435 36750034
00D7A2 50E0 B838            01838 18510+RMST20   ST    RE,TAPECCW2 .       STORE TIE ADDRESS IN CCW2              36800034
00D7A6 921B B838      01838       18511+         MVI   TAPECCW2,TIE .      SET UP TIE COMMAND                     36850034
00D7AA 9103 B840      01840       18512+         TM    TAPECCW3,CONTROL    TEST FOR CONTROL COMMAND     @DA08032 36900034
00D7AE 47E0 D5B8      0D76C       18513+         BNO   RMST05              NO, CONTINUE                 @DA08032 36950034
00D7B2 9203 B838      01838       18514+         MVI   TAPECCW2,NOP .      NOP TIE COMMAND              @DM00201 37000034
00D7B6 47F0 D5B8      0D76C       18515+         B     RMST05 .            GO SET UP MODE CCW AND EXIT            37050034
                            00000 18516+         USING SVEARA,R8 .         STANDARD ADDRESSING                    37150034
                            0D7BA 18517+NOTTAPE  EQU   * .                 SKIP TAPE SUPPORT                      37200034
00D7BA 1B00                       18518+         SR    R0,R0 .             SET POINT.TO BEGIN OF SEEK/SEARCHF.EM  37350034
00D7BC 95FF 4005      00005       18519+         CLI   CHQIRSPT,XFF        REQUEST SPECIFIC INFO AVAIL  @DY15773 38700034
00D7C0 4770 D7E2      0D996       18520+         BNE   HAVEIRS             YES, PREPARE TO BE STARTED   @DY15773 38710034
00D7C4 91F0 4004      00004       18521+         TM    REQID,REQMASK       IS IT SUPERVISOR REQUEST     @DY15773 38720034
00D7C8 4780 D7F8      0D9AC       18522+         BZ    STRTIO .            YES,START I/O                          38750034
00D7CC 9580 0870      00870       18523+         CLI   DEVZON,T3540        TEST FOR DISKETTE            @DY15773 39050034
00D7D0 4780 D640      0D7F4       18524+         BE    TESTSYS                                          @DL29R01 39100034
00D7D4 9560 0870      00870       18525+         CLI   DEVZON,DASD         IS DEVICE DASD               @DY15773 39150034
00D7D8 4770 D7F8      0D9AC       18526+         BNE   STRTIO              NOT DASD OR DISKETTE         @DL29R01 39200034
00D7DC 95FF D203      0D3B7       18527+         CLI   IRSDSKFP,XFF        ENOUGH IRS BLOCKS AVAILABLE  @DY15773 39203034
00D7E0 4770 D640      0D7F4       18528+         BNE   TESTSYS             YES, PROCEED                 @DY15773 39207034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D7E4 18F2                      18530+         LR    RF,R2              COPY CHNL/UNIT ADDRESS       @DY15773 39215034
00D7E6 88F0 0008           00008 18531+         SRL   RF,D8              GET CHNL NUMBER IN LOW ORDER @DY15773 39217034
00D7EA 41FF D1FC           0D3B0 18532+         LA    RF,RESIRST(RF)     CORRECT TABLE ENTRY          @DY15773 39219034
00D7EE 95FF F000      00000      18533+         CLI   D0(RF),XFF         RESERVED ENTRY AVAILABLE     @DY15773 39221034
00D7F2 0786                      18534+         BER   R6                 NO, PREVENT BLOCK SHORTAGE   @DY15773 39223034
                           0D7F4 18535+TESTSYS  EQU   *                                               @DL29R01 39250034
00D7F4 9501 4006      00006      18536+         CLI   LUBDSP,SYSIPT .    IS REQUEST FOR SYSRDR OR SYSIPT   344 39350034
00D7F8 4720 D650      0D804      18537+         BH    NOSYSIN .          BRANCH IF NOT                     344 39400034
00D7FC 9120 A00F      0000F      18538+         TM    PIBFLG2,JOBDUN .   READ PAST /&                      344 39450034
00D800 4710 0A22      00A22      18539+         BO    ERR30 .            BRANCH IF YES                     344 39500034
00D804 9500 3003      00003      18540+NOSYSIN  CLI   PUBERR,ZERO .      ERROR IN ERP?                         39850034
00D808 4770 D7F8      0D9AC      18541+         BNE   STRTIO .           YES, START I/O                        39900034
00D80C 9580 0870      00870      18542+         CLI   DEVZON,T3540       TEST FOR DISKETTE            @DL29R01 40000034
00D810 4770 D66C      0D820      18543+         BNE   TESTSYS1                                        @DL29R01 40050034
00D814 9503 4006      00006      18544+         CLI   LUBDSP,SYSLST     IS IT SYSTEM FILE            @DL29R01 40100034
00D818 4720 D7F8      0D9AC      18545+         BH    STRTIO             NO, BRANCH                   @DL29R01 40150034
00D81C 47D0 D68C      0D840      18546+         BNH   SYSFILE           SYSFILE ON 3540              @DL29R01 40200034
                           0D820 18547+TESTSYS1 EQU   *                                               @DL29R01 40250034
00D820 9503 4006      00006      18548+         CLI   LUBDSP,SYSLST .    IS IT SYSTEM FILE                 374 40400034
00D824 4720 D7F8      0D9AC      18549+         BH    STRTIO .           NO, BRANCH                        374 40450034
00D828 9507 9000      00000      18550+         CLI   CCWCODE,SEEK .     DOES USER ISSUE A LONG SEEK?          40750034
00D82C 4780 D684      0D838      18551+         BE    LONGSEEK           YES,VALID COMMAND            @DM03198 40800034
00D830 9513 9000      00000      18552+         CLI   CCWCODE,RECAL      IS IT A RECALIBRATE?         @DM03198 40850034
00D834 4770 0A28      00A28      18553+         BNE   ERR33              NO,INVALID COMMAND CODE      @DM03198 40900034
00D838 9140 9004      00004      18554+LONGSEEK TM    CCWCHAIN,CC .      IS COMMAND CHAINED?          @DM03198 40950034
00D83C 4780 D7F8      0D9AC      18555+         BZ    STRTIO .           NO, SINGLE SEEK,START I/O             41000034
                                 18556+* IT ENTERS HERE IF IT IS A SYSTEM FILE                              50150034
                                 18557+* IF JOB CONTROL OPENS I/O IS STARTED AS SOON AS POSSIBLE             50200034
                                 18558+* OTHERWISE IT IS CHECKED WITH HELP OF THE DIB ENTRY THAT THE CURRENT  50250034
                                 18559+* ADDRESS IS SMALLER THAN THE END ADDRESS OF THE EXTENT. FURTHER THE   50300034
                                 18560+* CCHH NUMBER GIVEN IN THE SEARCH COMMAND MUST CORRESPOND TO THE       50350034
                                 18561+* ONE IN THE DIB ENTRY                                               50400034
                                 18562+* FOR INPUT THE RECORD NUMBER IN THE SEARCH COMMAND MUST BE EQUAL TO   50450034
                                 18563+* THE ONE IN THE DIB ENTRY                                           50500034
                                 18564+* FOR OUTPUT, THE COMMAND MUST BE WRITE COUNT KEY AND DATA, AND THE    50550034
                                 18565+* CCHHRKDD MUST CORRESPOND TO THE ONE IN THE DIB ENTRY. THE RECORD     50600034
                                 18566+* NUMBER OF THE SEARCH COMMAND MUST BE ONE LOWER THAN THE ONE  @DM08734 50650034
                                 18567+* GIVEN IN THE DIB ENTRY.                                            50700034


00D840 18FA                      18569+SYSFILE  LR    RF,RA .            COPY POINTER TO PIB               EM 50800034
00D842 4BF0 0BDE           00BDE 18570+         SH    RF,PIBDIFF .       POINT TO PIBEXTENSION             EM 50850034
                           00000 18571+         USING PIBADR,RF                                            EM 50900034
00D846 BFF3 F000           00000 18572+         ICM   RF,M3,PIBCOMRA .   LOAD ADDRESS OF PERTINENT COMREG  EM 50950034
                           00000 18573+         USING COMREG,RF .        DECLARE BASE                 @DM11453 51000034
00D84A 9140 F038      00038      18574+         TM    JCSW1,JCOPEN .     DID JOB CONTROL ISSUE OPEN?  @DM11453 51050034
                                 18575+         DROP  RF .               DON'T USE REG F FOR ADDR.LOW CORE  EM 51100034
00D84E 4710 D7F8      0D9AC      18576+         BO    STRTIO .           YES, START I/O                        51150034
00D852 4580 D7AA           0D95E 18577+         BAL   R8,DIBENTRY .      GET THE CORRECT DIB ENTRY ADDRESS     51200034
                           00000 18578+         USING DIB,R5 .           DECLARE ADDRESSABILITY                51250034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D856 9580 0870      00870        18579+         CLI   DEVZON,T3540       TEST FOR 3540 DEVICE         @DL29R01 51300034
00D85A 4780 D752      0D906        18580+         BE    T35405             YES, BRANCH TO 3540 ROUTINE  @DL29R01 51350034
00D85E D506 5000 500A 00000 0000A  18581+         CLC   CURAD(L7),ENDAD .  ADDRESS WITHIN EXTENT?               51400034
00D864 4720 0A26      00A26        18582+         BH    ERR32 .            NO, ERROR                             51450034
00D868 5070 0048             00048 18583+         ST    R7,CAW .           STORE CCW ADDRESS IN CAW           EM 51500034
00D86C 4180 9008             00008 18584+         LA    R8,CCWNEXT .       LOAD ADDRESS OF SEARCH CCW            51700034
00D870 9111 8000      00000        18585+         TM    D0(R8),SRCHRPS     IS IT A SCH ID OF SOME KIND  @DL30SSM 51750034
00D874 4710 D6C8      0D87C        18586+         BO    NRPSYSF            YES, NOT RPS CHAN PGM THEN   @DL30SSM 51800034
00D878 4188 0008             00008 18587+         LA    R8,D8(R8)          ELSE SKIP OVER TIC OR SETSECT@DL30SSM 51850034
                             0D87C 18588+NRPSYSF  EQU   *                                                @DL30SSM 51900034
00D87C 4570 B398             01398 18589+         BAL   R7,GETDADR .       GET VIRT.ADDR.OF SEARCHFIELD      JAB 51950034
00D880 128F                        18590+         LTR   R8,RF .            IS ADDRESS VALID                      52000034
00D882 4780 0A26      00A26        18591+         BZ    ERR32 .            CANCEL USER PROGRAM                EM 52050034
00D886 B1FF 0004             00004 18592+         LRA   RF,L4(RF) .        POINT TO LAST BYTE OF SEARCH FIELD EM 52100034
00D88A 4770 0A26      00A26        18593+         BNZ   ERR32 .            IF FIELD NOT IN REAL STORE OR AT   EM 52150034
00D88E 59F0 07E4             007E4 18594+         C     RF,EOCADDR         INVALID ADDRESS              @DM11453 52200034
00D892 4720 0A26      00A26        18595+         BH    ERR32 .            CANCEL USERPROGRAM                 EM 52250034
00D896 D204 B700 8000 01700 00000  18596+         MVC   SEARCHFL(L5),D0(R8)  GET SEARCH ADDRESS              JAB 52300034
00D89C 9502 4006      00006        18597+         CLI   LUBDSP,SYSPCH .    IS IT OUTPUT FILE                  JAB 52350034
00D8A0 4740 D746      0D8FA        18598+         BL    SYSINF .           NO, BRANCH. SYSIN                  JAB 52400034
00D8A4 43F0 B704             01704 18599+         IC    RF,RECNO .         OBTAIN RECORD NUMBER               JAB 52450034
00D8A8 41FF 0001             00001 18600+         LA    RF,D1(RF) .        UDATE RECORD NUMBER                JAB 52500034
00D8AC 42F0 B704             01704 18601+         STC   RF,RECNO .         STORE UPDATED RECORD NUMBER        JAB 52550034
00D8B0 D504 B700 5002 01700 00002  18602+CORRECT  CLC   SEARCHFL(L5),CURAD+D2  CHECK SEARCH ADDRESS          JAB 52600034
00D8B6 4770 0A26      00A26        18603+         BNE   ERR32 .            ERROR IF NOT EQUAL                 JAB 52650034
00D8BA 4189 0018             00018 18604+         LA    R8,D24(R9) .       GET FOURTH WORD              @DM08099 52700034
00D8BE 9523 8000      00000        18605+         CLI   D0(R8),SETSECT     IS IT A SETSECT              @DM08099 52800034
00D8C2 4780 D71A      0D8CE        18606+         BE    RPSYSF                                          @DM08099 52850034
00D8C6 9508 8000      00000        18607+         CLI   D0(R8),TIC         IS IT A TIC                  @DL30SSM 52950034
00D8CA 4770 D71E      0D8D2        18608+         BNE   NRPSYF2            NO, NOT RPS CHAN PGM         @DM08099 53000034
00D8CE 4188 0008             00008 18609+RPSYSF   LA    R8,D8(R8)          SKIP TO GET TO WR CNT CMD    @DM08099 53050034
                             0D8D2 18610+NRPSYF2  EQU   *                                             @DM08099 53100034
00D8D2 4570 B398             01398 18611+         BAL   R7,GETDADR .       GET VIRTUAL ADDR.OF CNTFIELD @DM08099 53150034
00D8D6 128F                        18612+         LTR   R8,RF .            IS ADDRESS VALID                      53200034
00D8D8 4780 0A26      00A26        18613+         BZ    ERR32 .            NO,CANCEL                          EM 53250034
00D8DC B1FF 0007             00007 18614+         LRA   RF,L7(RF) .        POINT TO LAST BYTE OF COUNTFIELD   EM 53300034
00D8E0 4770 0A26      00A26        18615+         BNZ   ERR32 .            IF FIELD NOT IN REAL STORE         EM 53350034
00D8E4 59F0 07E4             007E4 18616+         C     RF,EOCADDR         OR ADDRESS INVALID           @DM11453 53400034
00D8E8 4720 0A26      00A26        18617+         BH    ERR32 .            CANCEL USER PROGRAM                EM 53450034
00D8EC D507 5002 8000 00002 00000  18618+         CLC   CURAD+D2(L8),D0(R8) DO CCHHRKDD CORRESPOND?              53500034
00D8F2 4770 0A26      00A26        18619+         BNE   ERR32 .            NO, ERROR                             53550034
00D8F6 47F0 D7FC      0D9B0        18620+         B     STRTIO2 .          COMMAND OKE, START I/O            JAB 53600034

00D8FA 4400 D6FC             0D8B0 18622+SYSINF   EX    R0,CORRECT .       CHECK SEARCH ADDRESSES            JAB 53700034
00D8FE 4770 0A26      00A26        18623+         BNE   ERR32 .            NOT EQUAL, ERROR                  JAB 53750034
00D902 47F0 D7FC      0D9B0        18624+         B     STRTIO2 .          DO START IO                       JAB 53800034

                                   18626+*        ENTER HERE FOR SYSTEM FILES ON 3540 DEVICE          @DL29R01 53900034

00D906 5070 0048             00048 18628+T35405   ST    R7,CAW             STORE CCW IN CAW             @DL29R01 54000034
00D90A 1887                        18629+         LR    R8,R7              POINT TO SEEK CCW            @DL29R01 54050034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D90C 9140 8004      00004       18630+T35402   TM    D4(R8),CC          IS THIS CCW CHAINED          @DL29R01 54100034
00D910 47E0 D7FC      0D9B0       18631+         BNO   STRTIO2            MUST BE CONTROL CCW          @DL29R01 54150034
00D914 9507 8000      00000       18632+         CLI   D0(R8),SEEK        IS THIS A SEEK CCW           @DL29R01 54200034
00D918 4780 D770      0D924       18633+         BE    T35401             YES, CONTINUE                @DL29R01 54250034
00D91C 4188 0008            00008 18634+         LA    R8,D8(R8)          POINT TO NEXT CCW            @DL29R01 54300034
00D920 47F0 D758      0D90C       18635+         B     T35402             CONTINUE SEARCH FOR CCW      @DL29R01 54350034
00D924 D503 5003 500D 00003 0000D 18636+T35401   CLC   CURAD+D3(L4),ENDAD+D3   ONLY CHECK 4 BYTE ADDR  @DL29R01 54400034
00D92A 4780 0A26      00A26       18637+         BE    ERR32               EXTENT EXCEEDED BY ONE       @DL29R01 54450034
00D92E 1897                       18638+         LR    R9,R7              SAVE POINTER TO CCW          @DL29R01 54500034
00D930 4570 B398            01398 18639+         BAL   R7,GETDADR         GET VERT ADDR OF SEEK ADDR   @DL29R01 54550034
00D934 128F                       18640+         LTR   R8,RF              IS ADDR VALID                @DL29R01 54600034
00D936 4780 0A26      00A26       18641+         BZ    ERR32              NO, CANCEL                   @DL29R01 54650034
00D93A B1FF 0004            00004 18642+         LRA   RF,L4(RF)          POINT TO LAST BYTE OF SK ADDR@DL29R01 54700034
00D93E 4770 0A26      00A26       18643+         BNZ   ERR32              CHECK                        @DL29R01 54750034
00D942 59F0 07E4            007E4 18644+         C     RF,EOCADDR         IF NOT IN REAL STORAGE       @DM11453 54800034
00D946 4720 0A26      00A26       18645+         BH    ERR32              CANCEL USER PROGRAM          @DL29R01 54850034
00D94A D203 B701 8000 01701 00000 18646+         MVC   SEARCHFL+D1(L4),D0(R8) MOVE SEEK ARGUMENT     @DL29R01 54900034
00D950 D503 B701 5003 01701 00003 18647+         CLC   SEARCHFL+D1(L4),CURAD+D3 SEEK AND DIB EQUAL   @DL29R01 54950034
00D956 4770 0A26      00A26       18648+         BNE   ERR32              ERROR IF NOT EQUAL           @DL29R01 55000034
00D95A 47F0 D7FC      0D9B0       18649+         B     STRTIO2            START IO                     @DL29R01 55050034

                                  18651+*        DIBENTRY ROUTINE SUPPLIES IN R5 THE CORRECT DIB ENTRY ADDRESS  55150034

                            0D95E 18653+DIBENTRY EQU   * .                                              EM 55250034
                            00000 18654+         USING COMREG,RF .                                    @DM11453 55300034
00D95E 4850 F060            00060 18655+         LH    R5,DIBPT           GET ADDRESS OF DIBTABLE      @DM11453 55350034
00D962 4155 0060            00060 18656+         LA    R5,4*DIBLGT(R5) .  POINT TO PRCDIB   ENTRY            VB 55400034
00D966 9502 4006      00006       18657+         CLI   LUBDSP,SYSPCH .    IS IT SYSPUNCH?                    55450034
00D96A 4720 D7DC      0D990       18658+         BH    LISTDIB .          NO, SYSLIST                      VB 55500034
00D96E 4780 D7D8      0D98C       18659+         BE    PUNCHDIB .         YES,IT IS SYSPUNCH,GET THIRD DIBENTRY 55550034
00D972 9501 4006      00006       18660+         CLI   LUBDSP,SYSIPT .         IS IT SYSIPT                 VB 55600034
00D976 4770 D7CE      0D982       18661+         BNE   PROCDIB .               NO -                         VB 55650034
00D97A 91A0 F097      00097       18662+         TM    PSWTCH,PCALL+PDATA .    PROCEDURE WITH SYSIPT DATA   VB 55700034
                                  18663+*                                      BEING EXECUTED               VB 55750034
00D97E 47E0 D7D4      0D988       18664+         BNO   INDIB .                 NO -                         VB 55800034
                            0D982 18665+PROCDIB  EQU   * .                                                 VB 55850034
00D982 9181 F097      00097       18666+         TM    PSWTCH,PCALL+POVBIT .   PROCEDURE AND OV REQUEST     VB 55900034
00D986 0748                       18667+         BCR   4,R8 .                  PROCEDURE - RETURN TO CALLER VB 55950034
                                  18668+         DROP  RF .                                                 VB 56000034
                            0D988 18669+INDIB    EQU   * .                                                  VB 56050034
00D988 4B50 B596            01596 18670+         SH    R5,H24 .           IT IS SYSIN, GET SECOND DIB ENTRY     56100034
00D98C 4B50 B596            01596 18671+PUNCHDIB SH    R5,H24 .           GET FOREGOING DIB ENTRY               56150034
00D990 4B50 B596            01596 18672+LISTDIB  SH    R5,H24 .                GET SYSLIST DIB ENTRY        VB 56200034
00D994 07F8                       18673+         BR    R8 .               RETURN TO CALLER                      56250034


00D996 9560 0870      00870       18675+HAVEIRS  CLI   DEVZON,DASD         DASD DEVICE                @DY20607 56364034
00D99A 4770 D7F8      0D9AC       18676+         BNE   STRTIO             NO, JUST GO AHEAD          @DY20607 56365034
00D99E 1F77                       18677+         SLR   R7,R7               CLEAR                      @DY20607 56366034
00D9A0 4370 4005            00005 18678+         IC    R7,CHQIRSPT        GET IRS POINTER            @DY15773 56370034
00D9A4 4C70 080C            0080C 18679+         MH    R7,IRSLEN          MULTIPLY BY LENGTH         @DY15773 56376034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00D9A8 5A70 0804            00804 18680+         A     R7,AFRSTIRS        ADD TO START ADDRESS         @DY15773 56382034


                                  18682+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 56400034
                                  18683+*                                                                               * 56450034
                                  18684+*        START THE INPUT/OUTPUT OPERATION                                       * 56500034
                                  18685+*                                                                               * 56550034
                                  18686+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 56600034

00D9AC BE77 0049            00049 18688+STRTIO   STCM  R7,M7,CAW+1 .      STORE CCW ADDRESS IN CAW                    56700034
00D9B0 D300 0048 4004 00048 00004 18689+STRTIO2  MVZ   CAW(L1),REQID .     MOVE KEY TO CAW                             56750034
00D9B6 9501 4004      00004       18690+         CLI   REQID,SNS          IS THIS A SENSE TASK REQUEST @D34SDAP 56803034
00D9BA 4780 D89E      0DA52       18691+         BE    NOCRT              YES, SKIP CRT                @D34SDAP 56806034
00D9BE D501 3000 07DC 00000 007DC 18692+         CLC   PUBCHANN,SYSOCDEV  IS THIS THE OPERATOR CONSOLE @D34EDAP 56810034
00D9C4 4770 D89E      0DA52       18693+         BNE   NOCRT              NO, ITS NOT                  @D34EDAP 56820034
00D9C8 9500 3004      00004       18694+         CLI   PUBDEVTY,T1052     IS THIS THE 1052 CONSOLE     @D34EDAP 56830034
00D9CC 4780 D89E      0DA52       18695+         BE    NOCRT              YES, THEN SKIP CRT CODE      @D34EDAP 56840034
00D9D0 9120 B8A4      018A4       18696+         TM    CRTFLG1,CRTFETCH . IS $$BOCRTA AVAILABLE        @DM03444 57250034
00D9D4 0716                       18697+         BCR   O,R6 .             NO,DO NOT ACTIVATE CRT       @DM03444 57300034
00D9D6 9180 B8A8      018A8       18698+         TM    CRTFLG2,CRTBUSY    IS CRT ALREADY BUSY          @D34EDAP 57350034
00D9DA 4770 D89E      0DA52       18699+         BNZ   NOCRT              YES, CONTINUE                @DM11446 57400034
00D9DE 9102 0689      00689       18700+         TM    LCBYTE,FCHQ        NO ATTENTION/FETCH ALLOWED?  @DA02769 57500034
00D9E2 0776                       18701+         BCR   NZ,R6              YES, CONTINUE                @DA02769 57550034
00D9E4 58E0 B8A0            018A0 18702+         L     RE,ACRTSAV .       ADDRESS OF CRT SAVE AREA     @D34EDAP 57570034
00D9E8 5880 072C            0072C 18703+NOCRTCND L     R8,IJBCONSP .      PICK UP ADDR OF CRTTAB             AS 57600034
                            01898 18704+         USING CRTTAB,R8                                             @DY15679 57610034
                            121F0 18705+         USING CRTSAV,RE                                             @DY15679 57620034
00D9EC 5890 800C            018A4 18706+         L     R9,ACRTTRNS .      PICK UP ADDR OF CRT AREA           AS 57650034
00D9F0 9204 087F      0087F       18707+         MVI   RID+D1,REENTRID .  INDICATE REENTRANT ROUTINE         AP 57700034
00D9F4 9680 3006      00006       18708+         OI    PUBCSFLG,DEVBSY    SET CRT DEVICE BUSY          @DY15679 57710034
00D9F8 9680 8010      018A8       18709+         OI    CRTFLG2,CRTBUSY    CRT NOW BUSY                 @DY15679 57720034
00D9FC 4579 000E            0000E 18710+         BAL   R7,CRTDSP2(R9) .   BRANCH TO DOC ROUTINES             AS 57750034
00DA00 58B0 0844            00844 18711+         L     RB,HEX1000         COMMON BASE                  @DY15679 57780034
00DA04 58D0 0884            00884 18712+         L     RD,IOSBASE         IOS BASE REGISTER            @DY15679 57810034
00DA08 9130 E1F6      123E6       18713+         TM    DOCNIND,DOCN20+DOCN10 .ALARM REQUIRED             @DF02300 57900034
00DA0C 4770 D860      0DA14       18714+         BNZ   PROVALRM .          YES                          @DF02300 57950034
00DA10 94FB E34D      1253D       18715+         NI    CRTWCC,X'FB' .     SET OFF ALARM BIT            @DF02300 58000034
                            0DA14 18716+PROVALRM EQU   *                                                 @DF02300 58050034
                            00000 18717+         USING SVEARA,R8                                             @DM03020 58100034
                                  18718+         DROP  RE .                                                        AS 58150034
00DA14 947F 3006      00006       18719+         NI    PUBCSFLG,X'FF'-DEVBSY .SET CRT DEVICE NOT BUSY       @DF01222 58200034
00DA18 4570 0B20            00B20 18720+         BAL   R7,CQDSP           SET UP I/O REGISTERS         @DY15679 58215034
00DA1C 941F 1002      00002       18721+         NI    CCBCOM1,CLRCOM1    CLEAR CHAN. SCHED. BITS      @DY15679 58220034
00DA20 9405 1003      00003       18722+         NI    CCBCOM2,CLRCOM2    IN CRT CCB                   @DY15679 58225034
00DA24 9200 1004      00004       18723+         MVI   CCBSTA1,ZERO       CLEAR DEVICE STATUS IN CCB   @DY15679 58230034
00DA28 9200 1005      00005       18724+         MVI   CCBSTA2,ZERO       CLEAR CHANNEL STATUS IN CCB  @DY15679 58235034
00DA2C 5870 1008            00008 18725+         L     R7,CCBCCW          LOAD CCW ADDRESS             @DY15679 58240034
00DA30 5070 0048            00048 18726+         ST    R7,CAW             SET UP CHANNEL ADDRESS WORD  @DY15679 58245034
00DA34 4820 3000            00000 18727+         LH    R2,PUBCHANN        LOAD CHANNEL AND UNIT        @DY15679 58247034
00DA38 9200 087F      0087F       18728+         MVI   RID+D1,SYSTEMID .  RESTORE RID                        AP 58250034
00DA3C 94FB 0739      00739       18729+         NI    SYSFLAG2,XFF-AFTIOINT PREVENT UNNECESSARY TCH'S @DY15775 58252034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00DA40 1872                      18730+         LR    R7,R2              GET CHANNEL NUMBER           @DY11831 58255034
00DA42 8870 0008           00008 18731+         SRL   R7,D8              IN LOW ORDER BYTE            @DY11831 58260034
00DA46 4377 08F6           008F6 18732+         IC    R7,CHNDIS(R7)      CALCULATE DISPLACEMENT       @DY11831 58265034
00DA4A 5A70 0734           00734 18733+         A     R7,ACHNTAB         GET POINTER TO CHANNEL TABLE @DY11831 58270034
00DA4E 5070 DA90           0DC44 18734+         ST    R7,CHENTAD         SAVE POINT. TO CHAN. TAB.    @DY11831 58275034
                           0DA52 18735+NOCRT    EQU   * .                                                  AS 58300034
00DA52 18F2                      18736+         LR    RF,R2              GET CHANNEL NUMBER           @DY11831 58370034
00DA54 88F0 0008           00008 18737+         SRL   RF,D8              IN LOW ORDER BYTE            @DY11831 58400034
00DA58 43FF 08FE           008FE 18738+         IC    RF,BUCKDIS(RF) .   CALCULATE DISPLACEMENT                 58500034
00DA5C 5AF0 0728           00728 18739+         A     RF,AREGSAV .       SET POINTER TO CHANNEL BUCKET          58550034
                           00000 18740+         USING REGADR,RF .        MAKE BUCKET ADDRESSABLE              58600034
                           0DA60 18741+SIO      EQU   * .                ENTER HERE TO ISSUE SIO          451 58650034
00DA60 5880 B50C           0150C 18742+         L     R8,OLTAPP1 .       GET OLTEP APPENDAGE ADDRESS      451 58900034
00DA64 0558                      18743+         BALR  R5,R8 .            CALL OLTEP IF ACTIVE             451 58950034
00DA66 9C00 2000      00000      18744+OLTRET1  SIO   0(R2) .            START I/O                        451 59050034

                                 18746+*********************************************************************** 59350034
                                 18747+*        THIS HOOK DEPENDS ON REG 8 BEING AVAILABLE FOR USE.          59400034
                                 18748+*        THE HOOK IS USED BY THE FOLLOWING PDAID ROUTINES             59450034
                                 18749+*        FOR LINKAGE:   F/L TRACE (TAPE/PRINTER MODE)                 59500034
                                 18750+*                       GSVC TRACE                                    59550034
                                 18751+*                       I/O TRACE                                     59600034
                                 18752+*                       QTAM TRACE                                    59650034
                                 18753+*                       VTAM TRACE                       @DL29H00 59700034
                                 18754+*********************************************************************** 59750034

00DA6A 47F0 D8CE      0DA82      18756+PDSIOHK  B     NOPDSIO .          BRANCH UNLESS TRACE ACTIVE             59850034
00DA6E 5880 0740           00740 18757+         L     R8,PDARPTR .       LOAD BASE REGISTER FOR NEXT INSTR 487 59900034
                           14A60 18758+         USING PDAREA,R8 .        USE R8 AS BASE REGISTER              487 59950034
00DA72 909B 801C           14A7C 18759+         STM   R9,RB,PDREGSAV .   SAVE REGISTERS 9,10,11               ALF 60000034
00DA76 1898                      18760+         LR    R9,R8 .            LOAD PD AREA BASE REGISTER           ALF 60050034
                           14A60 18761+         USING PDAREA,R9 .        USE R9 AS BASE REGISTER              487 60100034
00DA78 45A0 9060           14AC0 18762+         BAL   RA,PDENTRY1 .      GO TO TRACE ROUTINE                  ALF 60150034
00DA7C 04A0                      18763+         SPM   RA .               RESTORE CONDITION CODE               451 60200034
00DA7E 989B 901C           14A7C 18764+         LM    R9,RB,PDREGSAV .   RESTORE REGISTERS                   ALF 60250034
                           00000 18765+         USING SVEARA,R8 .        DECLARE STANDARD ADDRESSING          ALF 60300034
                           02EDA 18766+         USING INTRTN,R9 .        DECLARE STANDARD ADDRESSING       IB 3.5 60400034
00DA82 4720 DA20           0DBD4 18767+NOPDSIO  BC    BUSYCHN,MPXCHB     SETUP RESTART IF BYTE MPX    @DA02845 60500034
00DA86 5890 070C           0070C 18768+         L     R9,AINTER .        SET BASE FOR I/O INTERRUPT               60750034
00DA8A 4710 9A54           0392E 18769+         BC    1,INTENOP          BRANCH IF NOT OPERATIONAL    @D34SDAP 60800034
00DA8E 4740 98F2           037CC 18770+         BC    4,CSWSTORD .       BRANCH ON CSW STORED               50 60900034
00DA92 1883                      18771+         LR    R8,R3              COPY PUB ADDRESS             @DY14616 60950034
00DA94 4930 0690           00690 18772+         CH    R3,YPUBTAB         IS IT HEADQUEUE REQUEST      @DY14616 61000034
00DA98 47B0 D8F4      0DAA8      18773+         BNL   NOHQSIO            NO                           @DY14616 61050034
00DA9C 9502 4004      00004      18774+         CLI   REQID,DSK          IS IT DISK-OR SENSE TASK     @DY15860 61060034
00DAA0 47D0 D8FC      0DAB0      18775+         BNH   SETBSY             YES, DON'T STORE PUB ADDRESS @DY15860 61070034
00DAA4 4880 3008           00008 18776+         LH    R8,PUBPTR          POINT TO ORIGINAL PUB        @DY14616 61100034
00DAA8 5020 F008           00008 18777+NOHQSIO  ST    R2,SAVRG2          SAVE DEVICES CCU ..          @DY14616 61150034
00DAAC 5080 F00C           0000C 18778+         ST    R8,SAVRG3          .. AND PUB ADDRESS           @DY14616 61200034
00DAB0 9680 3006      00006      18779+SETBSY   OI    PUBCSFLG,DEVBSY .  DEVICE BUSY FROM NOW ON      @DY15860 61750034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 18781+*THIS IS AN ACCOUNTING ROUTINE THAT COUNTS THE NUMBER OF SIO'S PER   GS 61900034
                                 18782+*DEVICE, AND STORES THE CUMULATIVE COUNT IN A TABLE ALONG WITH       GS 61950034
                                 18783+*CHANNEL AND DEVICE. THERE IS A TABLE  FOR EACH PARTITION .         EM 62000034
                                 18784+*SIO ACCOUNTING WILL BE DONE PER DEVICE ASSIGNED TO A PARTITION     EM 62050034
                                 18785+*BOTH REGISTERS MODIFIED ARE SAVED AND RESTORED.                    GS 62100034
                                 18786+*REGISTER USAGE                                                    GS 62150034
                                 18787+** R2    MUST BE PRELOADED WITH CHANNEL AND DEVICE ADDRESS          GS 62200034
                                 18788+** R7    WORK REGISTER                                             GS 62250034
                                 18789+** R8    POINTER TO START IO TABLE                                 GS 62300034
                                 18790+* IF THIS ROUTINE IS ENTERED VIA ROUTINE CSWSTORD THEN         @DA02522 62350034
                                 18791+* R8 CONTAINS THE RETURN ADDRESS                               @DA02522 62400034
                                 18792+*                                                                   GS 62450034
00DAB4 4180 D98C           0DB40 18793+         LA    R8,LDCHADD          CONTINUE ADDRESS            @DA02522 62500034
                           0DAB8 18794+JOBACC   EQU   *                                                @DA02522 62550034
00DAB8 9078 0990           00990 18795+         STM   R7,R8,ACCTSVRG .    SAVE REGISTERS                   GS 62600034
00DABC 1B77                      18796+         SR    R7,R7 .             CLEAR WORK REGISTER              GS 62650034
00DABE 4370 4004           00004 18797+         IC    R7,REQID .          TO ACCEPT REQUESTOR ID           GS 62700034
00DAC2 8A70 0004           00004 18798+         SRA   R7,D4 .             CHECK FOR USER PARTITION         GS 62750034
00DAC6 4780 D982      0DB36      18799+         BZ    GETOUT .            GET OUT IF NO                    GS 62800034
00DACA 9509 4006      00006      18800+         CLI   LUBDSP,SYSUSE       SYSTEM OVERHEAD             @DY11762 62810034
00DACE 4780 D982      0DB36      18801+         BE    GETOUT              YES, DON'T COUNT            @DY11762 62820034
00DAD2 9500 3003      00003      18802+         CLI   PUBERR,ZERO         IS IT RETRY SIO             @DY14439 62822034
00DAD6 4770 D982      0DB36      18803+         BNE   GETOUT              YES, GET OUT                @DY14439 62824034
00DADA 9550 0870      00870      18804+         CLI   DEVZON,TAPES       IS IT A TAPE DEVICE         @DY14439 62826034
00DADE 4770 D942      0DAF6      18805+         BNE   JOBACC2             NO                          @DY14439 62828034
00DAE2 9551 3004      00004      18806+         CLI   PUBDEVTY,T2495TC    ARE YOU SURE                @DY14439 62830034
00DAE6 4780 D942      0DAF6      18807+         BE    JOBACC2             NO                          @DY14439 62832034
00DAEA 58F0 D988           0DB3C 18808+         L     RF,CURRPUB2         GET PUB2ADDR                @DY14439 62834034
00DAEE 9120 F008      00008      18809+         TM    P2TFLG1-PUB2ADR(RF),P2TERP   IS ERP IN CONTROL  @DY14439 62836034
00DAF2 4710 D982      0DB36      18810+         BO    GETOUT              YES, DO NOT COUNT           @DY14439 62838034
                           0DAF6 18811+JOBACC2  EQU   *                                                @DY14439 62840034
00DAF6 8970 0002           00002 18812+         SLL   R7,D2 .             USE ID/4 AS INDEX TO ACCT.TAB.  Z0853 62850034
00DAFA 5887 09B4           009B4 18813+         L     R8,ACCTBLES-D4(R7)  ADDR OF ACCOUNTING TABLE          GS 62900034
                           00000 18814+         USING ACCTABLE,R8 .       DECLARE BASE                        62950034
00DAFE 4180 8078           00078 18815+         LA    R8,ACCTSIOS .       GET ADDRESS AF SIO TABLE          GS 63000034
                           00000 18816+         USING SVEARA,R8 .         RESET STANDARD USING                63050034
00DB02 9510 8000      00000      18817+NXT1     CLI   ZERO(R8),EMPTY .    TEST FOR EMPTY ENTRY              GS 63100034
00DB06 4740 D96E      0DB22      18818+         BL    INUSE .             IF NOT, TEST IF DEVICE ENTERED    GS 63150034
00DB0A 4720 D97E      0DB32      18819+         BH    OVRFLW .            OR END OF TABLE                   GS 63200034
00DB0E 4028 0000           00000 18820+         STH   R2,ZERO(R8) .       IF YES, PUT DEVICE ADDR INTO TABLE GS 63250034
00DB12 BF77 8003           00003 18821+COUNT    ICM   R7,M7,D3(R8) .      RETRIEVE OLD COUNT FROM TABLE     GS 63300034
00DB16 4177 0001           00001 18822+         LA    R7,ONE(R7) .        BUMP BY ONE                       GS 63350034
00DB1A BE77 8003           00003 18823+         STCM  R7,M7,D3(R8) .      STORE UPDATED COUNT INTO TABLE    GS 63400034
00DB1E 47F0 D982      0DB36      18824+         B     GETOUT .            GET OUT                           GS 63450034
00DB22 4928 0000           00000 18825+INUSE    CH    R2,ZERO(R8) .       TEST IF DEVICE ENTERED            GS 63500034
00DB26 4780 D95E      0DB12      18826+         BE    COUNT .             IF YES, GO INCREMENT COUNT        GS 63550034
00DB2A 4188 0006           00006 18827+         LA    R8,L'ACCTSIOS(R8) .IF NO,                             GS 63600034
00DB2E 47F0 D94E      0DB02      18828+         B     NXT1 .              TRY NEXT TABLE ENTRY              GS 63650034
00DB32 9230 8000      00000      18829+OVRFLW   MVI   ZERO(R8),ENDSGN .   TURN ON OVERFLOW INDICATOR        GS 63700034
00DB36 9878 0990           00990 18830+GETOUT   LM    R7,R8,ACCTSVRG .    RESTORE REGISTERS                 GS 63750034
00DB3A 07F8                      18831+         BR    R8                  CONTINUE                    @DA02522 63800034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00DB3C 00000000                  18832+CURRPUB2 DC    F'0'                                          @DY14439 63820034


                          0DB40  18834+LDCHADD  EQU   *                                             @DA02522 63900034
00DB40 5880 DA90          0DC44  18835+         L     R8,CHENTAD         POINT TO CHAN.TABLE        @DA02845 64000034


                                 18837+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @DL29Y00 64150034
                                 18838+*        THE FOLLOWING CODE HAS BEEN INSERTED TO TRY TO     *  @DL29Y00 64200034
                                 18839+*        START ANOTHER DEVICE ON A BLOCK MULTIPLEXER        *  @DL29Y00 64250034
                                 18840+*        CHANNEL. THIS WILL ONLY BE TRIED WHEN THE SIO      *  @DL29Y00 64300034
                                 18841+*        ROUTINE WAS ENTERED FROM THE ROUTINE IN THE I/O    *  @DL29Y00 64350034
                                 18842+*        INTERRUPT HANDLER THAT SELECTS A DEVICE TO BE      *  @DL29Y00 64400034
                                 18843+*        STARTED.                                           *  @DL29Y00 64450034
                                 18844+*        AFTER A SIO FOR A DEVICE WITHOUT THE DISCONNECT    *  @DL29Y00 64500034
                                 18845+*        COMMAND CHAINING CAPABILITY, TCH WILL ALWAYS       *  @DL29Y00 64550034
                                 18846+*        INDICATE CHANNEL NOT AVAILABLE.                    *  @DL29Y00 64600034
                                 18847+*        AFTER A SIO FOR A DEVICE THAT CAN DISCONNECT       *  @DL29Y00 64650034
                                 18848+*             -TCH MAY INDICATE CHANNEL AVAILABLE TO START  *  @DL29Y00 64700034
                                 18849+*              ANOTHER DEVICE.                               *  @DL29Y00 64750034
                                 18850+*             -WHEN TCH RESULTS IN COND.CODE 2 (CHANNEL     *  @DL29Y00 64800034
                                 18851+*              BUSY), A CHANNEL AVAILABLE INTERRUPT IS      *  @DL29Y00 64850034
                                 18852+*              INDUCED.                                     *  @DL29Y00 64900034
                                 18853+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @DL29Y00 64950034

00DB44 9120 8000          00000  18855+         TM    D0(R8),BLCKCHN     BLOCK MULTIPLEX CHANNEL    @DA02845 65050034
00DB48 4780 D9AC          0DB60  18856+         BZ    BRSROUT1           BRANCH IF NOT              @DA02845 65100034
00DB4C 9104 0739          00739  18857+         TM    SYSFLAG2,AFTIOINT  SIO RTN ENTERED AFTER INTERR@DA02845 65150034
00DB50 0786                      18858+         BZR   R6                 NO, EXIT                   @DL29Y00 65200034
00DB52 9F00 2000          00000  18859+         TCH   D0(R2)             CHANNEL AVAILABLE          @DL29Y01 65250034
00DB56 0776                      18860+         BCR   UNCOND-AVAILCHN,R6 NO, EXIT                   @DL29Y00 65300034
00DB58 5890 070C                 18861+         L     R9,AINTER          SET UP BASE FOR INT HANDLER @DM06835 65350034
00DB5C 47F0 9834          0370E  18862+         B     INITRG1            YES,GO TO SELECT NEXT DEVICE@DL29Y00 65400034


                          0DB60  18864+BRSROUT1 EQU   *                                             @DL29Y00 65500034
00DB60 9110 8000          00000  18865+         TM    D0(R8),MPXCHN      BYTE MULTIPLEXOR CHAN.     @DA02845 65600034
00DB64 07E6                      18866+         BCR   NO,R6              NO,EXIT                    @DM03715 65650034
00DB66 9102 3006          00006  18867+         TM    PUBCSFLG,NBTFLG .  DEVICE BURST OR OVERRUNNABLE?    191 65750034
00DB6A 4780 D9D2          0DB86  18868+         BZ    MPXRST             NO,CHECK IF RESTART NECESSARY@DM03715 65800034
00DB6E 9602 8000          00000  18869+         OI    D0(R8),BRSTCHN .   INTERCEPT NEXT BMPX REQUEST @DA02845 65850034
00DB72 4930 0690          00690  18870+         CH    R3,YPUBTAB         IS IT HEADQUEUE REQUEST    @DA08496 65900034
00DB76 47B0 D9CA          0DB7E  18871+         BNL   MPXRST7            NO, DON'T MODIFY R3        @DA08496 65950034
00DB7A 4830 3008          00008  18872+         LH    R3,PUBPTR          TAKE ADDRESS OF ORIGINAL PUB@DA08496 66000034
00DB7E 4030 DA88          0DC3C  18873+MPXRST7  STH   R3,BMPXPUB         CAUSE OF BURST MODE        @DA08496 66050034
00DB82 9200 DA8E          0DC42  18874+         MVI   REMPX,ZERO         DON'T TRY TO RESTART MPX   @DM03715 66100034
00DB86 9500 DA8E          0DC42  18875+MPXRST   CLI   REMPX,ZERO         BYTEMULTIPLEX.TO BE RESTARTED@DM03715 66200034
00DB8A 0786                      18876+         BCR   E,R6               NO,EXIT                    @DM03715 66250034
00DB8C 4930 0690          00690  18877+MPXRST1  CH    R3,YPUBTAB         IS IT HEADQUEUE REQUEST    @DA02845 66300034
00DB90 47B0 D9E4          0DB98  18878+         BNL   MPXRST3            NO, DO NOT CHANGE R3       @DA02845 66350034
00DB94 4830 3008          00008  18879+         LH    R3,PUBPTR          POINT R3 TO ORIGINAL PUB   @DA02845 66400034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00DB98 9104 0739      00739       18880+MPXRST3  TM    SYSFLAG2,AFTIOINT  SIO RTN ENTERED AFTER INTERR @DA02845 66450034
00DB9C 4710 D9FA      0DBAE       18881+         BO    MPXRST5            YES, RESTART TRIGGER OK      @DA02845 66500034
00DBA0 5030 DA8C            0DC40 18882+         ST    R3,SAVMPXR3        USE JUST STARTED AS TRIGGER  @DA02845 66550034
00DBA4 D201 00BA 3000 000BA 00000 18883+         MVC   CHNADR,PUBCHANN    PREVENT INCORRECT SIO        @DY11738 66570034
00DBAA 47F0 984A      03724       18884+         B     INITRG4            SCAN FOR FURTHER REQ         @DA02845 66600034
00DBAE 1F00                       18885+MPXRST5  SLR   R0,R0              CLEAR                        @DY11738 66650034
00DBB0 BF07 DA8D            0DC41 18886+         ICM   R0,M7,SAVMPXR3+D1  SCAN THR JUST STARTED OR INT @DY11738 66660034
00DBB4 4150 987E            03758 18887+         LA    R5,SVMPXBAL        INSURE CORRECT SCANNING      @DA02845 66700034
00DBB8 1930                       18888+         CR    R3,R0              WHOLE MPX STARTED            @DA02845 66750034
00DBBA 4740 9890      0376A       18889+         BL    SVMPXL             NO   SCAN                    @DA02845 66800034
00DBBE 4720 9858      03732       18890+         BH    SVMPXH             NO   FURTHER REQ             @DA02845 66850034
00DBC2 9110 8000      00000       18891+ENDRSTX  TM    D0(R8),MPXCHN      BYTE MULTIPLEXOR CHAN.       @DA02845 66900034
00DBC6 07E6                       18892+         BNOR  R6                 NO, DO NOT RESET RESTART IND @DA02845 66950034
00DBC8 95FF DA8C      0DC40       18893+         CLI   SAVMPXR3,XFF       ALL DEVICES STARTED          @DY11738 66960034
00DBCC 0786                       18894+         BER   R6                 NO, REMEMBER                 @DY11738 66970034
00DBCE 9200 DA8E      0DC42       18895+         MVI   REMPX,ZERO         RESET RESTART INDICATOR      @DA02845 67000034
00DBD2 07F6                       18896+         BR    R6                 EXIT                         @DA02845 67050034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  18898+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @DA02845 67150034
                                  18899+*                                                                @DA02845 67200034
                                  18900+*        WHEN THE BYTE MULTIPLEXOR CHANNEL IS BUSY               @DA02845 67250034
                                  18901+*        RESTART MUST BE SETUP.                                  @DA02845 67300034
                                  18902+*        THIS IS ONLY DONE IF THE CHANNEL DOES NOT RUN BURST,    @DA02845 67400034
                                  18903+*        IN THAT CASE IT WILL BE RESTARTED WHEN THE BURST        @DA02845 67450034
                                  18904+*        OPERATION COMPLETES.                                    @DA02845 67500034
                                  18905+*                                                                @DA02845 67600034
                                  18906+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @DA02845 67650034


                            0DBD4 18908+MPXCHB   EQU   *                                                @DA02845 67750034
00DBD4 9501 4004      00004       18909+         CLI   REQID,SNS          WAS THIS A SNS TASK REQUEST  @D34SDAP 67760034
00DBD8 0786                       18910+         BER   R6                 YES                          @D34SDAP 67770034
00DBDA 5880 DA90            0DC44 18911+         L     R8,CHENTAD         POINT TO CHAN TABLE          @DA02845 67850034
00DBDE 9110 8000      00000       18912+         TM    D0(R8),MPXCHN      BYTE MULTIPLEXOR CHAN.       @DA02845 67950034
00DBE2 0786                       18913+         BZR   R6                 NO, EXIT                     @DA02845 68000034
00DBE4 9102 8000      00000       18914+         TM    D0(R8),BRSTCHN     IS CHANNEL RUNNING BURST     @DA02845 68100034
00DBE8 0716                       18915+         BOR   R6                 YES, DO NOT INDICATE RESTART @DA02845 68150034
00DBEA 9F00 2000      00000       18916+         TCH   0(R2)              RUNNING IN BURST MODE        @DA08272 68250034
00DBEE 47D0 DA66            0DC1A 18917+         BC    13,MPXCHB6         NO, BUT.....                 @DY13380 68300034
00DBF2 4870 DA84            0DC38 18918+MPXCHB1  LH    R7,MPXWKCNT        PICK UP RETRY COUNT          @DY13380 68320034
00DBF6 0670                       18919+         BCTR  R7,R0              SUBTRACT ONE                 @DA02845 68400034
00DBF8 4070 DA84            0DC38 18920+         STH   R7,MPXWKCNT        STORE IT BACK                @DA02845 68450034
00DBFC 4670 D8AC            0DA60 18921+         BCT   R7,SIO             RETRY IF COUNT NOT EXHAUSTED @DA02845 68500034
00DC00 9500 DA8E      0DC42       18922+MPXCHB2  CLI   REMPX,ZERO         ALREADY RESTART ACTIVE       @DY13559 68550034
00DC04 4780 DA60      0DC14       18923+         BE    MPXCHB4            NO                           @DY11738 68607034
00DC08 92FF DA8C      0DC40       18924+         MVI   SAVMPXR3,XFF       REMEMBER NOT ALL STARTED     @DY11738 68614034
00DC0C 5890 070C            0070C 18925+         L     R9,AINTER          IOINTER BASE                 @DY11738 68621034
00DC10 47F0 D9D8      0DB8C       18926+         B     MPXRST1            CONTINUE RESTARTING          @DY11738 68628034
00DC14 5030 DA8C            0DC40 18927+MPXCHB4  ST    R3,SAVMPXR3        INDICATE RESTART MPX         @DY11738 68635034
00DC18 07F6                       18928+         BR    R6                 EXIT                         @DA02845 68650034
00DC1A D501 DA84 DA86 0DC38 0DC3A 18929+MPXCHB6  CLC   MPXWKCNT,MPXRTCNT  ALREADY BURST MODE DETECTED  @DY13380 68706034
00DC20 4770 DA3E      0DBF2       18930+         BNE   MPXCHB1            YES, NORMAL RETRY ROUTINE    @DY13380 68711034
00DC24 4870 DA82            0DC36 18931+         LH    R7,MPXRSCNT        PICK UP RETRY COUNT          @DY13380 68716034
00DC28 0670                       18932+         BCTR  R7,R0              SUBTRACT ONE                 @DY13380 68721034
00DC2A 4070 DA82            0DC36 18933+         STH   R7,MPXRSCNT        STORE IT BACK                @DY13380 68726034
00DC2E 4670 D8AC            0DA60 18934+         BCT   R7,SIO             RETRY IF COUNT NOT EXHAUSTED @DY13380 68731034
00DC32 47F0 DA4C      0DC00       18935+         B     MPXCHB2            GO INDICATE RESTART          @DY13380 68736034


00DC36 0000                       18937+MPXRSCNT DC    H'0'               RETRY 20 TIMES BEFORE TAKING @DY13380 68760034
                            00014 18938+MPXRSNUM EQU   20                 CONCLUSION SHARING/FOLDING   @DY13380 68770034
00DC38 0000                       18939+MPXWKCNT DC    H'0'               WORK FIELD FOR MPX RETRY     @DA02845 68800034
00DC3A 07D0                       18940+MPXRTCNT DC    H'2000'            NUMBER OF RETRIES            @DA02845 68850034


00DC3C 0000                       18942+BMPXPUB  DC    H'0'               PUB ADDRESS OF UNIT CAUSING  @DA08496 69000034
                                  18943+*                                 THE BURST MODE OPERATION     @DA08496 69050034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00DC3E 0000
00DC40 00000000                  18945+SAVMPXR3 DC    F'0'                SAVE PUB POINT.OF DEVICE     @DA02845 69200034
                                 18946+*                                  CAUSING RESTARTING OF MPX    @DA02845 69250034
                           0DC42 18947+REMPX    EQU   *-2                 USE ADDR.PART OF PUBPOINTER  @DA02845 69300034
                                 18948+*                                  AS RESTART INDICATOR         @DA02845 69350034


00DC44 00000000                  18950+CHENTAD  DC    F'0'                CHANNEL TABLE ENTRY ADDRESS  @DA02845 69450034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00DC48 9102 7000      00000       18952+BRSROUT  TM    D0(R7),BRSTCHN .   IS CHANNEL RUNNING BURST?    @DM03715 69850034
00DC4C 47E0 D4A6      0D65A       18953+         BNO   AVAIL .            NO,START I/O                   UR+191 69900034
00DC50 9102 3006      00006       18954+         TM    PUBCSFLG,NBTFLG    DEVICE BURST OR OVERRUNNABLE          69950034
00DC54 47E0 D4A6      0D65A       18955+         BNO   AVAIL              NO,MAYBE CHAN. ACCEPTS I/O   @DM03715 70000034
00DC58 07F5                       18956+         BR    R5 .               YES,DON'T START IF  ALREADY BUSY  191 70050034



                                  0DC5A 18958+LOGPRC   EQU   * .                                          @DM06580 73400034
00DC5A 9101 0739      00739       18959+         TM    SYSFLAG2,IPLBIT    IS IPL IN PROCESS             @D34ADAP 73410034
00DC5E 4710 D7F8      0D9AC       18960+         BO    STRTIO             YES, PREFENT ANY PREFIX       @D34ADAP 73420034
00DC62 9509 4004      00004       18961+         CLI   REQID,CRT .        CRT IN PROCESS                @DM04339 73850034
00DC66 4780 D7F8      0D9AC       18962+         BE    STRTIO .           PREVENT PREFIX                @DM04339 73900034
00DC6A 9283 0963      00963       18963+         MVI   TRTCBF,READY       POST CBF BOUND CONDIDTION     @DM06580 74300034
                                  00000 18964+   USING CCWADR,R9          MAKE IOINTER ADDRESSABLE      @D34ADAP 74320034
00DC6E 950B 9000      00000       18965+         CLI   CCWCODE,X'0B'      IS THIS ALERT CMD FOR SYSLOG  @D34ADAP 74350034
00DC72 4770 DACA      0DC7E       18966+         BNE   LOGPRC10          NO, PROCESS NORMAL            @D34ADAP 74380034
00DC76 91C0 9004      00004       18967+         TM    CCWCHAIN,DC+CC     ANY CHAINING                  @D34ADAP 74450034
00DC7A 4780 D7F8      0D9AC       18968+         BZ    STRTIO             NO, DONT PREFIX               @D34ADAP 74500034
                                  18969+         DROP  R9                                               @D34ADAP 74550034
00DC7E 910F 4004      00004       18970+LOGPRC10 TM    REQID,X0F          SYSTEM TASK REQUEST           @D34ADAP 74600034
00DC82 4780 DB10      0DCC4       18971+         BZ    LOGPRC1            NO,SET PREFIX                 @DM01866 74650034
00DC86 950B 4004      00004       18972+         CLI   REQID,ERP          ERP REQUEST                   @DA03338 74700034
00DC8A 4780 DAF2      0DCA6       18973+         BE    LOGPRC2A           NO,SKIP                       @D34ADAP 74750034
                                  00000 18974+   USING CCWADR,R7                                        @D34ADAP 74758034
00DC8E 58E0 7000            00000 18975+LOGPRC1A L     RE,CCWBUF          GET MESSAGE ADDRESS           @D34ADAP 74766034
                                  18976+         DROP  R7                                               @D34ADAP 74774034
00DC92 D502 B5B1 E000 015B1 00000 18977+         CLC   SPREFIX,D0(RE)     ALREADY PREFIXED ?            @D34ADAP 74782034
00DC98 4780 D7F8      0D9AC       18978+         BE    STRTIO             YES, START I/O                @D34ADAP 74800034
00DC9C D201 B5AA B5B1 015AA 015B1 18979+         MVC   IDOUT(L2),SPREFIX  SET SP PREFIX                 @D34ADAP 74810034
00DCA2 47F0 DB16      0DCCA       18980+         B     LOGPRC1B           SKIP TESTS                    @D34ADAP 74820034
00DCA6 58E0 06F8            006F8 18981+LOGPRC2A L     RE,AERBLOC         POINT TO ERQ                  @D34ADAP 75050034
                                  10260 18982+   USING ERBLOC,RE          DECLARE BASE                  @D34ADAP 75080034
00DCAA 95E9 E007      10267       18983+         CLI   FTCHNM,CZ          $$ABERRZ IN CONTROL           @D34ADAP 75110034
00DCAE 4780 DB10      0DCC4       18984+         BE    LOGPRC1            YES,SKIP                      @D34ADAP 75140034
00DCB2 95E9 E006      10266       18985+         CLI   FTCHNM-1,CZ        $$ABERZ1 OR Z2 ACTIVE         @D34ADAP 75170034
00DCB6 4780 DB10      0DCC4       18986+         BE    LOGPRC1            YES                           @D34ADAP 75200034
00DCBA D603 E020 E020 10280 10280 18987+         OC    ERQCCB1(L4),ERQCCB1  IS A CCB AVAILABLE          @DY13406 75230034
00DCC0 4780 DADA      0DC8E       18988+         BZ    LOGPRC1A           NO, THEN USE SP AS PREFIX     @D34ADAP 75260034
                                  18989+         DROP  RE                 DROP ERBLOC BASE              @D34ADAP 75290034
                                  0DCC4 18990+LOGPRC1  EQU   *                                          @DM01256 75800034
00DCC4 D201 B5AA A002 015AA 00002 18991+         MVC   IDOUT(L2),PIBLOGID MOVE SYSLOG ID TO OUTPUT AREA          75850034
00DCCA D501 3000 07DC 00000 007DC 18992+LOGPRC1B CLC   PUBCHANN,SYSOCDEV  IS THIS THE OPERATOR CONSOLE @D34EDAP 75900034
00DCD0 4780 DB26      0DCDA       18993+         BE    TICLOG             YES                           @DM08736 75950034
00DCD4 D201 B5AA B5AC 015AA 015AC 18994+         MVC   IDOUT(L2),IDOUT+D2 BLANK PREFIX                 @DA01664 76100034
                                  0DCDA 18995+TICLOG   EQU     *                                        @DM08736 76150034
00DCDA BE77 B859            01859 18996+         STCM  R7,M7,LOGTIC+1 .   SET TIC TO USER CHAIN                 76200034
00DCDE 4170 B850            01850 18997+         LA    R7,LOGCCW .        LOAD ADDRESS OF PREFIX CCW          76250034
00DCE2 47F0 D7F8      0D9AC       18998+         B     STRTIO .           GO START CHANNEL PROGRAM            76300034

                                  19000+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@DM01647 76400034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  19001+*                                                                  @DM01647 76450034
                                  19002+*        EXECUTE SYSTEM TASK EXCP                                  @DM01647 76500034
                                  19003+*                                                                  @DM01647 76550034
                                  19004+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@DM01647 76600034

                             0DCE6 19006+SVC76    EQU   * .                                                 @DM01647 76700034
00DCE6 4111 0000             00000 19007+         LA    R1,D0(R1) .       INDICATE SIMPLE SYST.I/O REQ    @DM01647 76750034
                             0DCEA 19008+SVC15    EQU   * .               HEAD QUEUE SVC                    @DM01647 76800034
00DCEA 9500 073D      0073D       19009+         CLI   SELECT,ZERO .     REQ. FROM USER TASK               @DM01647 76850034
00DCEE 4780 09EA      009EA       19010+         BE    ERR21 .           YES,ILLEGAL SVC                   @DM01647 76900034
00DCF2 45E0 D14E             0D302 19011+         BAL   RE,TSTFLPTR       TEST FOR FREE CHANQ ENTRY         @D34EDAP 77000034
00DCF6 45E0 D072             0D226 19012+         BAL   RE,GETPUB .       GET ADDRESS OF ORIG.PUB           @D34EDAP 77400034
                             0DCFA 19013+SVC15A0  EQU   *                 RETURN FROM GETPUBVT              @DL29H00 77450034
00DCFA 9604 1002      00002       19014+         OI    CCBCOM1,POSTDE    FORCE POSTING AT DEVICE END       @DY20441 77470034
00DCFE 9509 073D      0073D       19015+         CLI   SELECT,CRT        CRT REQUEST                       @DY15017 77530034
00DD02 4770 DB68      0DD1C       19016+         BNE   SVC15A1          NO, PROCESS NORMAL                @DY15017 77570034
00DD06 D501 3000 07DC 00000 007DC 19017+         CLC   PUBCHANN,SYSOCDEV DISPLAY REQUEST                   @DY15017 77610034
00DD0C 4770 DB68      0DD1C       19018+         BNE   SVC15A1          NO, PROCESS NORMAL                @DY15017 77650034
00DD10 BF18 DB5C             0DD10 19019+         ICM   R1,M8,*           UNCONDITIONAL REQUEST             @DY15017 77690034
00DD14 4120 000C             0000C 19020+         LA    R2,HQLOG-HQTABS   DISPLACEMENT TO HQ ENTRY        @DY15017 77730034
00DD18 47F0 DB70      0DD24       19021+         B     SVC15A2           GO TO PROCESS REQUEST             @DY15017 77770034
                             0DD1C 19022+SVC15A1  EQU   *                                                 @DY15017 77850034
00DD1C 4820 073C             0073C 19023+         LH    R2,STID .                                         @D34ADAP 77900034
00DD20 4322 B5BF             015BF 19024+         IC    R2,HQTRTAB(R2) .  DISPLACEMENT IN HQ-TAB            @DM01647 77950034
00DD24 5870 B5B8             015B8 19025+SVC15A2  L     R7,AHQTAB .       ADDRESS OF HQ-TAB                 @DM04235 78000034
00DD28 1A27                        19026+         AR    R2,R7 .           ADDR. OF TASKS HQ-TAB ENTRY       @DM01647 78050034
                             00000 19027+         USING HQADR,R2 .                                        @DM01647 78100034
00DD2A D207 2000 3000 00000 00000 19028+         MVC   HQADR(L8),PUBADR . COPY PUB TO HEAD QUEUE ENTRY     @DM03444 78150034
00DD30 92FF 2002      00002       19029+         MVI   HQCHQPT,NOTQUED .  INDICATE NO REQ. QUEUED          @DM03444 78200034
00DD34 9443 2006      00006       19030+         NI    HQCSFLG,XFF-DEVBSY-UCPEND-QEDERR-OPINTV-POSTDE      @DY15773 78250034
00DD38 9200 2003      00003       19031+         MVI   HQERR,ZERO        CLEAR ERROR COUNT                 @DY15773 78300034
00DD3C 4030 2008             00008 19032+SVC15A3  STH   R3,HQPUBPTR       ACTIVATE HQ-ENTRY                 @DY15773 78310034
00DD40 1211                        19033+         LTR   R1,R1 .           UNCONDITIONAL HQ-REQUEST          @DM03444 78350034
00DD42 47B0 DBC0      0DD74       19034+         BNM   SVC15B .          NO,DONT HQ IT IMMEDIATELLY        @DM03444 78400034
00DD46 94FC 2007      00007       19035+         NI    HQJCFLG,XFF-HQIPR RESET HQIPR IN COPIED PUB         @DM03444 78450034
                                  19036+         DROP  R2 .                                              @DM01647 78500034
                             00000 19037+         USING HQADR,R7 .                                        @DM01647 78550034
00DD4A 9103 3007      00007       19038+         TM    PUBJCFLG,HQIPR .  HEAD QUEUE IN PROCESS             @DM03444 78600034
00DD4E 47E0 DC0E      0DDC2       19039+         BNO   SVC15C .          NO,GOTO SET IN PROGRESS NOW       @DM03444 78650034
00DD52 4177 000C             0000C 19040+SVC15A   LA    R7,HQLENGTH(R7) . ADRESS OF FIRST/NEXT ENTRY        @DM01647 78700034
00DD56 4930 7008             00008 19041+         CH    R3,HQPUBPTR .     HQ-REQUEST FOR SAME DEVICE        @DM01647 78750034
00DD5A 4770 DB9E      0DD52       19042+         BNE   SVC15A .          NO,CHECK NEXT ENTRY               @DM01647 78800034
00DD5E 1972                        19043+         CR    R7,R2 .           HIGHER PRIOR.HQ-REQ. FOUND        @DM01647 78850034
00DD60 4780 DC12      0DDC6       19044+         BE    SVC15D .          NO,PROCESS UNCOND.HQ REQUEST      @DM03444 78900034
00DD64 9103 7007      00007       19045+         TM    HQJCFLG,HQIPR .   HEAD QUEUE IN PROCESS            @DM03444 78950034
00DD68 4770 DB9E      0DD52       19046+         BNZ   SVC15A .          NO,CHECK NEXT ENTRY               @DM03444 79000034
00DD6C 9603 7007      00007       19047+         OI    HQJCFLG,HQIPR .   HEAD QUEUE IN HEAD QUEUE         @DM03444 79050034
00DD70 47F0 DC12      0DDC6       19048+         B     SVC15D .          PROCESS UNCOND.HQ REQUEST         @DM03444 79100034
                                  19049+         DROP  R7 .                                              @DM03444 79150034
                             00000 19050+         USING HQADR,R2 .                                        @DM03444 79200034
00DD74 9103 3007      00007       19051+SVC15B   TM    PUBJCFLG,HQIPR .  HEAD QUEUE IN PROCESS             @DM03444 79250034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00DD78 4780 DBD0      0DD84       19052+         BZ    SVC15E .           GOTO TEST IF HQ POSSIBLE     @DM03444 79300034
00DD7C 94FD 2007      00007       19053+         NI    HQJCFLG,XFF-HQIPR+HQWANTED LET HQWANTED ON      @DM03444 79350034
00DD80 47F0 DC12      0DDC6       19054+         B     SVC15D .           CONT.TO PROCESS HQ REQUEST   @DM03444 79400034
00DD84 95FF 3002      00002       19055+SVC15E   CLI   PUBCHQPT,NOTQUED . REQUEST QUEUED TO THE PUB    @DM03444 79450034
00DD88 4780 DC0E      0DDC2       19056+         BE    SVC15C .           NO,HEAD QUEUE SYSIO REQ.     @DM01647 79500034
00DD8C 9110 3006      00006       19057+         TM    PUBCSFLG,QEDERR .  ERROR QUEUED ON PUB          @DM01647 79550034
00DD90 4710 DC0E      0DDC2       19058+         BO    SVC15C .           YES,HEAD QUEUE SYSIO REQ.    @DM01647 79600034
00DD94 9180 3006      00006       19059+         TM    PUBCSFLG,DEVBSY .  DEVICE BUSY                  @DM01647 79650034
00DD98 4710 DC02      0DDB6       19060+         BO    SVC15G .           YES, HEAD-QUEUE WANTED       @DA00521 79750034
00DD9C D501 3000 07DC 00000 007DC 19061+         CLC   PUBCHANN,SYSOCDEV  IS THIS THE SYSTEM CONSOLE   @D34EDAP 79760034
00DDA2 4770 DC0E      0DDC2       19062+         BNE   SVC15C             NO, THEN IT MAY GET STARTED  @D34EDAP 79770034
00DDA6 9500 3004      00004       19063+         CLI   PUBDEVTY,T1052     IS IT A 1052 KEYBOARD        @D34EDAP 79800034
00DDAA 4780 DC0E      0DDC2       19064+         BE    SVC15C             YES, THEN IT MAY GET STARTED @D34EDAP 79830034
00DDAE 9180 B8A8      018A8       19065+         TM    CRTFLG2,CRTBUSY .  IS CRT BUSY                  @DA00521 79900034
00DDB2 4780 DC0E      0DDC2       19066+         BZ    SVC15C .           NO, HEAD-QUEUE REQUEST       @DA00521 79950034
00DDB6 9601 3007      00007       19067+SVC15G   OI    PUBJCFLG,HQWANTED  INDICATE HEAD-QUEUE WANTED   @DA00521 80000034
00DDBA 9601 2007      00007       19068+         OI    HQJCFLG,HQWANTED . INDICATE HEAD-QUEUE WANTED   @DM03444 80300034
00DDBE 47F0 DC12      0DDC6       19069+         B     SVC15D .           CONT.TO PROCESS HQ REQUEST   @DM03444 80350034
00DDC2 9603 3007      00007       19070+SVC15C   OI    PUBJCFLG,HQIPR .   SET HEAD QUEUE IN PROGRESS   @DM01647 80400034
00DDC6 1832                       19071+SVC15D   LR    R3,R2 .            POINT PUB-PTR TO COPIED PUB  @DM03444 80450034
00DDC8 47F0 D218      0D3CC       19072+         B     THRET              CONTINUE AS NORM SVC0        @D30EULR 80500034
                                  19073+         DROP  R2 .                                            @DM03444 80550034
                           00000  19074+         USING CCWADR,R7 .        REESTABLISH NORM. USING      @DM01647 80600034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00DDCC 07FC                      19076+SGIOS2   BR    RC                SECOND BASE FOR SGIOS        @DY12235 80625034




                                 0DDCE 19079+SVC25    EQU   * .               HALT I/O                              80750034
00DDCE 45E0 D072                 0D226 19080+SVC27    BAL   RE,GETPUB .      INITIALIZE PUB POINTER                80800034
00DDD2 58D0 0888                 00888 19081+         L     RD,IOSBASE2     LOAD PROPER BASE REGISTER    @DY12235 80810034
                                 0DDCC 19082+         USING SGIOS2,RD       ADDRESSABILITY               @DY12235 80820034
00DDD6 9510 067F      0067F      19083+         CLI   PIK+ONE,BGID .  IS IT A BG REQUEST                      RJI 80900034
00DDDA 4770 D026      0DDF2      19084+         BNE   TSTDEV1 .       NO,CHECK FOR T/P REQUEST                RJI 81000034
00DDDE 9180 0764      00764      19085+         TM    IJBOLTEP,OLTAC . IS OLTEP IN BG                       RJI 81250034
00DDE2 4780 D026      0DDF2      19086+         BZ    TSTDEV1 .       NO, CHECK T/P                         RJI 81350034
00DDE6 5010 B508                 01508 19087+         ST    R1,OLTSAV .     YES, SAVE CCB ADDRESS                 RJI 81400034
00DDEA 92FF B508      01508      19088+         MVI   OLTSAV,OLTPHALT . INDICATE OLTEP HIO REQUEST          RJI 81450034
00DDEE 47F0 D030      0DDFC      19089+         B     TSTDEV2 .       CONTINUE COMMON ACTION                RJI 81500034
00DDF2 95B0 0870      00870      19090+TSTDEV1  CLI   DEVZON,TTP .    IS THIS A TP DEVICE                       81800034
00DDF6 0746                      19091+         BCR   L,R6 .          NO, IGNORE HIO REQUEST                    81850034
00DDF8 9200 B508      01508      19092+         MVI   OLTSAV,ZERO .   YES, ENSURE NON-OLTEP REQUEST        RJI 81950034
                                 0DDFC 19093+TSTDEV2  EQU   * .                                               EM 82050034
00DDFC 5010 B6E4                 016E4 19094+         ST    R1,BTSAV .      SAVE CCB ADDRESS OF SVC 25   @DM02507 82150034
00DE00 4570 0B20                 00B20 19095+         BAL   R7,CQDSP .      SET UP I/O REGISTERS                  82250034
00DE04 1211                      19096+         LTR   R1,R1 .         IS CCB AVAILABLE?                         82300034
00DE06 0786                      19097+         BCR   Z,R6 .          NO, IGNORE HIO REQUEST                    82350034
00DE08 5890 070C                 0070C 19098+         L     R9,AINTER .     SET BASE FOR I/O INTERRUPT            82400034
                                 02EDA 19099+         USING INTRTN,R9       MAKE IOINTER ADDRESSABLE   @D34ADAP 82420034
00DE0C 95FF B508      01508      19100+         CLI   OLTSAV,OLTPHALT . IS THIS AN OLTEP REQUEST            RJI 82550034
00DE10 4770 D0A4      0DE70      19101+         BNE   TPBUSY0 .       NO, THEN JUST HALT DEVICE             RJI 82600034
00DE14 1853                      19102+         LR    R5,R3           PROVIDE ADDRESS OF ACTUAL PUBENTRY    JS 82900034
00DE16 4B50 0690                 00690 19103+         SH    R5,YPUBTAB      COMPUTE PUB DISPLACEMENT              JS 82950034
00DE1A 8850 0002                 00002 19104+         SRL   R5,L2           COMPUTE PUB OWNERSHIP DISPLACEMENT JS 83000034
00DE1E 5A50 0770                 00770 19105+         A     R5,PBOWNPTR     POINT TO ACTUAL ENTRY                 JS 83050034
00DE22 91FE 5001      00001      19106+         TM    LOW(R5),X'FF'-BGIND CHECK ON FOREGROUND ASSIGNMENTS   JS 83100034
00DE26 4780 D0A4      0DE70      19107+         BZ    TPBUSY0 .       NO, GO HALT IT                        RJI 83150034
00DE2A 1874                      19108+         LR    R7,R4 .         YES, POINT TO CHAN. QUEUE ENTRY       RJI 83200034
00DE2C D502 B509 7001 01509 00001 19109+OLTPCOMP CLC   OLTSAV+ONE(L3),ONE(R7) .IS OLTEP CCB FIRST ENTRY     RJI 83250034
00DE32 4780 D0A4      0DE70      19110+         BE    TPBUSY0 .       YES, HALT DEVICE                      RJI 83300034
00DE36 1847                      19111+HALTLOOP LR    R4,R7 .         KEEP CHANQ POINTER IN R4                  83350034
00DE38 95FF 4000      00000      19112+         CLI   CHQCHAIN,NULL . IS THIS THE LAST ENTRY                RJI 83400034
00DE3C 0786                      19113+         BCR   E,R6 .          YES, IGNORE HIO REQUEST               RJI 83450034
00DE3E 1B77                      19114+         SR    R7,R7 .         POINT TO NEXT CHANQ ENTRY BY          RJI 83500034
00DE40 4370 4000                 00000 19115+         IC    R7,CHQCHAIN .   MULTIPLYING THE CURRENT CHAINBYTE RJI 83550034
00DE44 8970 0003                 00003 19116+         SLL   R7,L3 .         BY 8 AND ADDING THE ADDRESS           RJI 83600034
00DE48 5A70 071C                 0071C 19117+         A     R7,ACHANQ .     OF THE CHAN. QUEUE                        83650034
00DE4C 4400 D060                 0DE2C 19118+         EX    R0,OLTPCOMP .   IS THIS THE OLTEP CCB                 435 83700034
00DE50 4770 D06A      0DE36      19119+         BNE   HALTLOOP .      NO, LOOK AT NEXT                      RJI 83750034
00DE54 1B88                      19120+         SR    R8,R8 .         YES, REMOVE IT FROM CHANQ             RJI 83800034
00DE56 4380 4000                 00000 19121+         IC    R8,CHQCHAIN .   SAVE POINTER TO THIS CHANQ ENTRY  RJI 83850034
00DE5A D200 4000 7000 00000 00000 19122+         MVC   CHQCHAIN(L1),ZERO(R7) .SWITCH CHAIN BYTE              RJI 83900034
00DE60 D200 7000 071C 00000 0071C 19123+         MVC   ZERO(L1,R7),FLPTR .ADD THIS ENTRY TO THE FREE LIST   RJI 83950034
00DE66 4280 071C                 0071C 19124+         STC   R8,FLPTR .      STORE SAVED POINTER                   RJI 84000034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00DE6A 92FF 7007      00007       19125+         MVI   7(R7),XFF .        RESET THE REQID                          84050034
00DE6E 07F6                       19126+         BR    R6 .               EXIT                               RJI 84100034
                                  19127+*                                                                        84150034
                          0DE70   19128+TPBUSY0  EQU   * .                                                    RJI 84250034
00DE70 95FF B6E4      016E4       19129+         CLI   BTSAV,SPECHIO .    IS IT REQUEST FOR NOP               EM 84350034
00DE74 4780 D146      0DF12       19130+         BE    BTHIO0 .           YES                                 EM 84400034
00DE78 4820 3000              00000 19131+TPBUSY4  LH    R2,PUBCHANN .      LOAD CHANNEL AND UNIT                  84500034
00DE7C 9110 3006      00006       19132+         TM    PUBCSFLG,QEDERR .  ERROR QUEUED?                 @DA00037 84550034
00DE80 4710 0FDC      00FDC       19133+         BO    RESVC .            YES,DO NOT ISSUE HIO          @DA00037 84600034
00DE84 9180 3006      00006       19134+         TM    PUBCSFLG,DEVBSY .  IS DEVICE BUSY?                       84650034
00DE88 4780 D114      0DEE0       19135+         BZ    IOPSET .           NO.DEQUEUE CCB                        84700034
00DE8C 9500 A001      00001       19136+         CLI   PIBCNCL,ZERO       PARTITION CANCELED            @DY11694 84750034
00DE90 4720 D0D0      0DE9C       19137+         BH    HALT               YES, DO NOT WAIT              @DA06551 84800034
00DE94 9104 3006      00006       19138+         TM    PUBCSFLG,POSTDE .  WAITING FOR DEVICE END ONLY?          84850034
00DE98 4770 D114      0DEE0       19139+         BNZ   IOPSET .           YES, DEQUEUE THE CCB                  84900034
00DE9C 941F 1002      00002       19140+HALT     NI    CCBCOM1,CLRCOM1 .  CLEAR CHANNEL SCHEDULER BITS      191 84950034
00DEA0 9405 1003      00003       19141+         NI    CCBCOM2,CLRCOM2 .  IN USER CCB                       191 85000034
00DEA4 9E01 2000      00000       19142+         HDV   D0(R2)             ISSUE HDV COMMAND             @DL29Y01 85050034
00DEA8 47A0 D120              0DEEC 19143+         BC    10,B3ACHK          RESVC IF INTERRUPT PENDING    @DY11694 85100034
00DEAC 4710 9A54              0392E 19144+         BC    1,INTENOP          NOT OPERATIONAL               @D34SDAP 85300034
                              0DEB0 19145+TPBUSY1  EQU   * .                                                    RJI 85350034
00DEB0 9106 0045      00045       19146+         TM    CHNSTA,CHNCHK .    CHANNEL FAILURE?                      85400034
00DEB4 4780 D0F8      0DEC4       19147+         BZ    NOCCHIO .          NO,GO TEST THE DEVICE                HL 85500034
00DEB8 9602 0819      00819       19148+         OI    RASFLAGS,CCSIOB .  TREAT AS CHECK ON SIO                HL 85550034
00DEBC 58F0 0820              00820 19149+         L     RF,RASBASE .       LOAD RAS BASE                        HL 85600034
                              0C27A 19150+         USING MCSTRT,RF .        DECLARE BASE FOR RAS                 HL 85650034
00DEC0 47F0 F27C      0C4F6       19151+         B     CCENTRY1 .         GO TO CHANNEL CHECK                  HL 85700034
                          0DEC4   19152+NOCCHIO  EQU   * .                                                        85750034
00DEC4 95D0 3004      00004       19153+         CLI   PUBDEVTY,T2701 .   IS DEVICE TYPE 2701?                    86050034
00DEC8 4780 D108      0DED4       19154+         BE    TPBUSY2 .          IF YES, SKIP TEST                  RJI 86100034
00DECC 9570 0044      00044       19155+         CLI   DEVSTA,STATMOD+BUSY+CUEND IS CONTROL UNIT BUSY           86600034
00DED0 4780 0FDC      00FDC       19156+         BE    RESVC .            YES, REISSUE SVC FOR A HIO               86650034
                          0DED4   19157+TPBUSY2  EQU   * .                                                    RJI 86700034
00DED4 18EA                       19158+         LR    RE,RA .            GET POINTER TO PIBEXT.        ZTR0582 86800034
00DED6 4BE0 0BDE              00BDE 19159+         SH    RE,PIBDIFF .                                     ZTR0582 86850034
                              00000 19160+         USING PIBADR,RE                                        ZTR0582 86900034
00DEDA 9519 E007      00007       19161+         CLI   SVCIC,HIO .        WAS IT AN SVC 25?                    EM 86950034
00DEDE 0776                       19162+         BCR   NE,R6 .            NO, EXIT                              87000034
                                  19163+         DROP  RE                                               ZTR0582 87050034
00DEE0 4020 00BA              000BA 19164+IOPSET   STH   R2,CHNADR .       YES, STORE CHANNEL AND UNIT           88150034
00DEE4 5890 070C              0070C 19165+         L     R9,AINTER .        SET UP BASE ADDRESS           @DM00062 88200034
00DEE8 47F0 9352      0322C       19166+         B     TRNOFF .           DEQUEUE THE CCB                       88250034

00DEEC 4400 B2D2              012D2 19168+B3ACHK   EX    R0,COMPCLC         LTA REQUEST                   @DY11694 88258034
00DEF0 4770 0FDC      00FDC       19169+         BNE   RESVC              NO                            @DY11694 88262034
00DEF4 5830 0714              00714 19170+         L     R3,ALTA            ADDRESS LTA                   @DY11694 88266034
00DEF8 D507 D13E 3000 0DF0A 00000 19171+         CLC   BEOJ3A,D0(R3)      REQUEST FROM TERMINATOR       @DY11694 88270034
00DEFE 4770 0FDC      00FDC       19172+         BNE   RESVC              NO                            @DY11694 88274034
00DF02 4130 0004              00004 19173+         LA    R3,D4              HE WANTS TO KNOW ABOUT RESVC  @DY11694 88278034
00DF06 47F0 B018      01018       19174+         B     GETUTAD1           RESVC                         @DY11694 88282034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00DF0A 5B5BC2C5D6D1F3C1           19176+BEOJ3A   DC    CL8'$$BEOJ3A'      TERMINATOR NAME              @DY11694 88290034

                                  19178+*                                                                    88350034
                                  19179+*THIS INTERFACE BTAM - SYSTEM CCWTRANSLATION ASSUMES                  88400034
                                  19180+* BTAM IS THE ONLY T/P ACCESS METHOD USING THE SYSTEMS CCW-TRANSLATION  88450034
                                  19181+* THE INDICATOR X'FF' IS IN HIGH ORDER BYTE OF REGISTER 1 AT SVC25 TIME 88500034
                                  19182+* THE CCW'S IN QUESTION ARE SEQUENTIALLY ARRANGED                      88550034
                                  19183+*                                                                    88600034
00DF12 18E1                       19184+BTHIO0   LR    RE,R1 .            COPY ADDR.OF CCB TO BE CHECKED     EM 88650034
                          00000   19185+         USING CCBADR,RE          USE ANOTHER CCB POINTER            EM 88700034
                          00000   19186+         USING CHQADR,RF          USE ANOTHER CHQ POINTER            EM 88750034
00DF14 18F4                       19187+         LR    RF,R4 .            COPY POINTER TO CHANNEL QUEUE      EM 88800034
00DF16 9140 E006      00006       19188+BTHIO    TM    CCBCLS,BTAM .      IS THIS A BTAM REQUEST       @DM02507 88850034
00DF1A 47E0 D1B8      0DF84       19189+         BNO   BTHIO1 .           NO                                 EM 88900034
00DF1E 9160 E006      00006       19190+         TM    CCBCLS,BTTR .      IS THIS A VIRTUAL BTAM REQU. @DM02507 88950034
00DF22 47E0 D164      0DF30       19191+         BNO   BTHIO3 .           NO,REAL REQUEST              @DM02507 89000034
00DF26 D502 E01D B6E5 0001D 016E5 19192+         CLC   CCBVA+D1(L3),BTSAV+D1 IS ADDR.OF HIO CCB EQ TO PUB CCBEM 89050034
00DF2C 4770 D1C0      0DF8C       19193+         BNE   BTHIO2 .           SCAN FOR CORRECT CCB               EM 89100034
00DF30 58E0 E008            00008 19194+BTHIO3   L     RE,CCBCCW .        GET ADDRESS OF CHAN.PROGRAM  @DM02507 89150034
00DF34 9013 D1AC            0DF78 19195+         STM   R1,R3,BTHIO3X .    SAVE REGISTERS               @DA02035 89200034
00DF38 5810 B6E4            016E4 19196+         L     R1,BTSAV .         LOAD CCB ADDRESS             @DA02035 89250034
00DF3C 5821 0008            00008 19197+         L     R2,D8(R1) .        GET ADDRESS OF CHAN.PROGRAM  @DA02035 89300034
00DF40 4131 0028            00028 19198+         LA    R3,D40(R1) .       GET FIRST CCW FROM LCB       @DM05976 89350034
00DF44 4122 0000            00000 19199+         LA    R2,D0(R2) .        CLEAR HIGH-ORDER BYTE        @DA02035 89400034
00DF48 1923                       19200+         CR    R2,R3 .            ADDR. THE SAME AS INIT.CCW   @DA02347 89450034
00DF4A 4780 D194      0DF60       19201+         BE    BTHIODO            YES, READY FOR RESETPOLL     @DA02347 89500034
00DF4E 4133 0008            00008 19202+         LA    R3,D8(R3)          POINT TO 2ND CCW             @DA02347 89550034
00DF52 1923                       19203+         CR    R2,R3              ADDR. THE SAME AS 2ND CCW    @DA02347 89600034
00DF54 9813 D1AC            0DF78 19204+         LM    R1,R3,BTHIO3X .    RESTORE REGISTERS            @DA02035 89650034
00DF58 0776                       19205+         BCR   7,R6 .             NO, EXIT                     @DA02035 89700034
00DF5A 4120 0008            00008 19206+         LA    R2,D8              SET TO 8                     @DA02347 89750034
00DF5E 1BE2                       19207+         SR    RE,R2              POINT TO FIRST REAL CCW      @DA02347 89800034
00DF60 9813 D1AC            0DF78 19208+BTHIODO  LM    R1,R3,BTHIO3X      RESTORE REGISTERS            @DA02347 89850034
00DF64 9201 E017      00017       19209+         MVI   D23(RE),L1         SET BYTE COUNT INTO NOP      @DM02508 89900034
00DF68 9201 E02F      0002F       19210+         MVI   D47(RE),L1         SET BYTE COUNT INTO NOP      @DM02508 89950034
00DF6C 9203 E010      00010       19211+         MVI   D16(RE),NOP .      CHANGE TIC OPCODE TO NOOP    @DA03875 90000034
00DF70 9203 E028      00028       19212+         MVI   D40(RE),NOP .      IN 3RD AND 6TH CCW           @DA03875 90050034
00DF74 07F6                       19213+         BR    R6 .               EXIT                               EM 90100034
00DF78                            19214+         DS    0F .               FORCE ALIGNMENT              @DA02035 90150034
00DF78 0000000000000000           19215+BTHIO3X  DC    3F'0' .            SAVE AREA                    @DA02035 90200034
00DF84 BDE7 B6E5            016E5 19216+BTHIO1   CLM   RE,M7,BTSAV+D1 .   SAME CCB IF NOT VIRT.BTAM REQU.    EM 90250034
00DF88 4780 D0AC      0DE78       19217+         BE    TPBUSY4 .          YES,NORMAL HIO                     EM 90300034
00DF8C 95FF F000      00000       19218+BTHIO2   CLI   CHQCHAIN,NULL .    LAST REQUEST ON PUB                EM 90350034
00DF90 4780 D0AC      0DE78       19219+         BE    TPBUSY4 .          YES,GO TO PROCESS NORMAL HIO       EM 90400034
00DF94 1BEE                       19220+         SR    RE,RE              GET NEXT CCB IN CHAIN        @DA03929 90450034
00DF96 43E0 F000            00000 19221+         IC    RE,CHQCHAIN        GET CHAIN POINTER            @DA03929 90500034
00DF9A 89E0 0003            00003 19222+         SLL   RE,L3 .            GET INDEX IN CHAN QUEUE      @DA03929 90550034
00DF9E 5AE0 071C            0071C 19223+         A     RE,ACHANQ .        ADDR.OF CHAN.QUEEU           @DA03929 90600034
00DFA2 18FE                       19224+         LR    RF,RE              USE RF AS CHANQ ENTRY PRT    @DA03929 90650034
00DFA4 58E0 F000            00000 19225+         L     RE,CHQCCBAD .      GET NEXT CCB                       EM 90700034
00DFA8 47F0 D14A      0DF16       19226+         B     BTHIO .            CHECK FOR CHAN.PROG. TO BE STOPPED EM 90750034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  19227+         DROP  RE,RF              USE AGAIN STANDARD ADDRESSING      EM 90800034


                                  19229+*************************************************************************** 90950034
                                  19230+*        SVC 3 - FORCE DEQUEUE.THIS SVC IS ISSUED BY $$BEOJ5 WHEN IT  * 91000034
                                  19231+*        FINDS AN I/O REQUEST IN THE CHANNEL QUEUE BELONGING TO THE   * 91050034
                                  19232+*        TERMINATING TASK.REGISTER 1 POINTS TO THE PUB TO BE DEQUEUED.* 91100034
                                  19233+*************************************************************************** 91150034

00DFAC 4400 B2D2            012D2 19235+SVC03    EX    R0,COMPCLC .      CALL FROM B-TRANSIENT            446 91250034
00DFB0 4780 D1F0      0DFBC       19236+         BE    SVC03A            YES, SVC ALLOWED              @DM03575 91300034
00DFB4 950B 073D      0073D       19237+         CLI   SELECT,ERP        CALL FROM ERP ($$ABERZ1)      @DM03575 91350034
00DFB8 4770 09EA      009EA       19238+         BNE   ERR21             NO,ILLEGAL SVC                @DM03575 91400034
00DFBC 1831                       19239+SVC03A   LR    R3,R1 .           COPY PUB POINTER              @DM03575 91450034
00DFBE 4570 0B20            00B20 19240+         BAL   R7,CQDSP .        SET UP OTHER I/O REGISTERS       446 91500034
00DFC2 1211                       19241+         LTR   R1,R1             IS THERE A CCB                @DA03249 91550034
00DFC4 0786                       19242+         BCR   Z,R6              NO, EXIT                      @DA03249 91600034
00DFC6 D201 00BA 3000 000BA 00000 19243+         MVC   CHNADR(L2),PUBCHANN                             @DM04954 91650034
00DFCC 9180 100C      0000C       19244+         TM    CCBBY3,ERRTIN .   IS THIS AN ERP REQUEST           446 91700034
00DFD0 0776                       19245+         BCR   NZ,R6 .           DON'T THROW ERP OUT OF THE QUEUE  446 91750034
00DFD2 5890 070C            0070C 19246+         L     R9,AINTER .       SET BASE FOR I/O INTERRUPT       446 91800034
                            02EDA 19247+         USING INTRTN,R9         MAKE IOINTER ADDRESSABLE      @D34ADAP 91850034
00DFD6 9110 3006      00006       19248+         TM    PUBCSFLG,QEDERR . ERROR QUEUED ON DEVICE        @DM01474 91900034
00DFDA 0716                       19249+         BCR   O,R6 .            LEFT IT FOR ERP TO DEQUEUE    @DM01474 91950034
00DFDC D300 0870 3004 00870 00004 19250+         MVZ   DEVZON,PUBDEVTY   GET ZONE OF DEVICE TYPE       @DA08694 92050034
00DFE2 9550 0870      00870       19251+         CLI   DEVZON,TAPES      IS DEVICE TAPE                @DA08694 92100034
00DFE6 4770 D230      0DFFC       19252+         BNE   SVC03B            NO                            @DA08694 92150034
00DFEA 9551 3004      00004       19253+         CLI   PUBDEVTY,T2495TC TAPE CARTRIDGE READER          @DA08694 92200034
00DFEE 4780 D230      0DFFC       19254+         BE    SVC03B            YES                           @DA08694 92250034
00DFF2 45E0 B292             01292 19255+         BAL   RE,RMSGETP2       GET PUB2 ADDRESS              @DA08694 92300034
                             00000 19256+         USING PUB2ADR,R8        SET BASE                      @DA08694 92350034
00DFF6 9120 8008      00008       19257+         TM    P2TFLG1,P2TERP    IS ERP IN CONTROL             @DA08694 92400034
                             00000 19258+         USING SVEARA,R8         STANDARD ADDRESSING           @DA08694 92450034
00DFFA 0716                       19259+         BOR   R6                YES, LEFT IT FOR ERP          @DA08694 92500034
                            0DFFC 19260+SVC03B    EQU   *                                               @DA08694 92550034
00DFFC 9180 3006      00006       19261+         TM    PUBCSFLG,DEVBSY . REQUEST ALREADY STARTED       @DM01474 92650034
00E000 47E0 9352      0322C       19262+         BNO   TRNOFF .          NO,GO TO DELETE REQUEST       @DM01474 92700034
00E004 4820 3000             00000 19263+         LH    R2,PUBCHANN .     CHANNEL AND DEVICE ADDR.      @DM01474 92750034
00E008 9F00 2000      00000       19264+         TCH   D0(R2) .          CHANNEL END COND. POSSIBLE    @DM01474 92800034
00E00C 4790 9352             0322C 19265+         BC    O+Z,TRNOFF .      NO,GOTO DELETE REQUEST        @DM01474 92850034
00E010 18F2                       19266+         LR    RF,R2 .           CHANNEL AND DEVICE ADDR.      @DM01474 92900034
00E012 88F0 0008             00008 19267+         SRL   RF,D8 .                                         @DM01474 92950034
00E016 43FF 08FE             008FE 19268+         IC    RF,BUCKDIS(RF) .  DISPL.IN REG.SAV.AREA         @DM01474 93000034
00E01A 5AF0 0728             00728 19269+         A     RF,AREGSAV .      ADDRESS OF CHANNEL BUCKET     @DM01474 93050034
                             00000 19270+         USING REGADR,RF .       BASE TO CHANN.BUCKET          @DM01474 93100034
00E01E 4920 F00A             0000A 19271+         CH    R2,SAVRG2+D2 .    I/O RUNNING ON SAME DEVICE    @DM01474 93150034
00E022 0786                       19272+         BCR   E,R6 .            YES,LEFT REQUEST QUEUED       @DM01474 93200034
00E024 47F0 9352      0322C       19273+         B     TRNOFF .          DEQUEUE ENTRY FROM CHANNEL QUEUE  446 93250034
                                  19274+         DROP  RF .                                            @DM01474 93300034
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                                   19276+         DROP  R1,R4,R7                                          @D34RDFG 93350034
                                   19277+         DROP  RD                                              @D34RDFG 93400034
                                   19278+* SUPERVISOR - SGSER - 5745-SC-SUP - REL. 34.1                  @DY15747 00250034
                             0E028 19279+SERTASK  EQU   *                                                        00750034
00E028                       00874 19280+         ORG   ASERTASK           TO FILL IN ADDRESS           @DY13104 00810034
000874 0000E028                    19281+         DC    A(SERTASK)         ADDRESS OF SERVICE TASK      @DY13104 00820034
000878                       0E028 19282+         ORG   ,                                               @DY13104 00830034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0E028 19284+SIZEDET1 EQU   *                                                    02400034
                           0E028 19285+         USING *,RD                                                   02450034
                           00000 19286+         USING PUBADR,R3                                              02500034
00E028 1788                      19287+         XR    R8,R8        CLEAR SECOND-TIME FLAG REG              02550034
00E02A 947F D190      0E1B8      19288+         NI    RQTFLAGS,XFF-RQTWTD RESET WORK-TO-DO FLAG             02600034
                           0E02E 19289+SIZEDET2 EQU   *                                                    02650034
00E02E 4850 D18E           0E1B6 19290+         LH    R5,RQTCNT   GET SIZE OF REQUEST TABLE                02700034
00E032 4120 D194           0E1BC 19291+         LA    R2,RQTTAB    POINT AT FIRST ENTRY                    02750034
                           00000 19292+         USING RQTE,R2                                              02800034
                           0E036 19293+SIZEDET3 EQU   *                                                    02850034
00E036 5830 2000           00000 19294+         L     R3,RQTPUB    GET VALUE OF ENTRY(PUB ADDR)            02900034
00E03A 1233                      19295+         LTR   R3,R3        IS ENTRY ACTIVE?                        02950034
00E03C 4780 D038      0E060      19296+         BZ    SIZEDET5     NO, PROCESS NEXT ENTRY                  03000034
00E040 1288                      19297+         LTR   R8,R8        SECOND TIME THRU?                @DY13104 03050034
00E042 4770 D02E      0E056      19298+         BNZ   SIZEDET4     YES, DO DETERMINE SIZE NOW ANYWAY @DY13104 03070034
00E046 9103 3007      00007      19299+         TM    PUBJCFLG,HQIPR IS HEADQUEUE IN PROCESS           @DY13104 03110034
00E04A 4770 D038      0E060      19300+         BNZ   SIZEDET5     YES, CAN WAIT TO DO              @DY13104 03120034
00E04E 9180 3006      00006      19301+         TM    PUBCSFLG,DEVBSY IS DEVICE BUSY?                       03150034
00E052 4710 D038      0E060      19302+         BO    SIZEDET5     YES, CAN WAIT TO DO              @DY13104 03180034
                           0E056 19303+SIZEDET4 EQU   *                                                    03250034
00E056 4570 D09E           0E0C6 19304+         BAL   R7,SERSNS    DO SIZE DETERMINATION                   03350034
00E05A D703 2000 2000 00000 00000 19305+         XC    RQTPUB,RQTPUB CLEAR THIS ENTRY                 @DY13104 03370034
                           0E060 19306+SIZEDET5 EQU   *                                                    03400034
00E060 4120 2004           00004 19307+         LA    R2,RQTNEXT   BUMP TO NEXT ENTRY                      03450034
00E064 4650 D00E           0E036 19308+         BCT   R5,SIZEDET3  PROCESS NEXT ENTRY                      03500034
00E068 1288                      19309+         LTR   R8,R8        SECOND TIME THRU TABLE?                 03550034
00E06A 4770 D04E      0E076      19310+         BNZ   SIZEDET6     YES, TABLE SHOULD BE DONE               03600034
00E06E 4180 0001           00001 19311+         LA    R8,1         CHECK TABLE AGAIN                       03650034
00E072 47F0 D006      0E02E      19312+         B     SIZEDET2     LOOP AGAIN                              03700034
                           0E076 19313+SIZEDET6 EQU   *                                                    03750034
00E076 9140 D190      0E1B8      19314+         TM    RQTFLAGS,RQTOVFLW DID REQUEST TABLE OVERFLOW           03800034
00E07A 4780 D076      0E09E      19315+         BZ    SIZEDET7     NO, DEACTIVATE TASK AND EXIT            03850034
                                 19316+* HAVE OVERFLOW OF REQUEST TABLE SO MUST SENSE ALL 3340S             03900034
                           0E07E 19317+SERSCAN  EQU   *                                                    03950034
                           0E07E 19318+SERSCAN1 EQU   *                                                    04000034
00E07E 94BF D190      0E1B8      19319+         NI    RQTFLAGS,XFF-RQTOVFLW RESET OVERFLOW COND.             04050034
00E082 4830 0690           00690 19320+         LH    R3,YPUBTAB   POINT AT FIRST PUB                      04100034
                           0E086 19321+SERSCAN2 EQU   *                                                    04150034
00E086 9568 3004      00004      19322+         CLI   PUBDEVTY,T3340 IS IT A 3340                @DY13104 04200034
00E08A 4770 D06A      0E092      19323+         BNE   SERSCAN4     NO, OR SIZE IS KNOWN             @DY13104 04240034
00E08E 4570 D09E           0E0C6 19324+         BAL   R7,SERSNS    DO SIZE DETERMINATION                   04400034
                           0E092 19325+SERSCAN4 EQU   *                                                    04450034
00E092 4130 3008           00008 19326+         LA    R3,NEXTPUB   LOOK AT NEXT PUB                        04500034
00E096 95FF 3000      00000      19327+         CLI   PUBCHANN,XFF END OF PUB TABLE?                       04550034
00E09A 4770 D05E      0E086      19328+         BNE   SERSCAN2     NO, LOOK AT NEXT PUB                    04600034
                           0E09E 19329+SIZEDET7 EQU   *                                                    04650034
00E09E 9180 D190      0E1B8      19330+         TM    RQTFLAGS,RQTWTD HAS ANOTHER REQUEST COME IN            04700034
00E0A2 4710 D000      0E028      19331+         BO    SIZEDET1     DO WHOLE THING AGAIN                    04750034
                                 19332+*  DEACTIVATE SERVICE TASK                                           04800034
00E0A6 1788                      19333+         XR    R8,R8        HAVE TO CALC ADDR OF TASK BLOCK         04850034
00E0A8 4380 07A7           007A7 19334+         IC    R8,SVTPTR    GET DISP TO BLOCK                       04900034
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00E0AC 5A80 0790            00790 19335+         A     R8,ASYSBLK0  ADD TO BASE ADDRESS                          04950034
                            00000 19336+         USING SYSBLKS,R8                                                 05000034
00E0B0 9200 073D      0073D       19337+         MVI   SELECT,ZERO  FORCE TASK SELECTION                         05050034
00E0B4 9200 087D      0087D       19338+         MVI   SYSSZ+D1,ZERO RELEIZE                          @DY15747 05070034
                                  19339+* RESET ENTRY POINT OF TASK TO BEGINNING                                   05100034
00E0B8 5880 8004            00004 19340+         L     R8,SYSAVAR   GET ADDR OF SAVE AREA                         05150034
                                  19341+         DROP  R8                                                         05200034
                            00000 19342+         USING SVEARA,R8                                                  05250034
00E0BC BED7 800D            0000D 19343+         STCM  RD,7,SVEPSW+5 STORE BASE REG IN PSW                        05300034
                                  19344+         DROP  R8                                                         05350034
00E0C0 5860 086C            0086C 19345+         L     R6,DISPAD    GET ADDR DISPATCHER ENRTY POINT             05400034
00E0C4 07F6                       19346+         BR    R6           RETURN TO DISPATCHER                        05450034
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0E0C6 19348+SERSNS   EQU   *                                                        06200034
                           0E0C6 19349+SERSNS1  EQU   *                                                        06250034
                                 19350+* FILL CCB WITH PUB INDEX                                              06300034
00E0C6 1863                      19351+         LR    R6,R3         NEED A WORK REG                          06350034
00E0C8 4B60 0690           00690 19352+         SH    R6,YPUBTAB    GET REL. DISP. IN PUB TABLE              06400034
00E0CC 8860 0003           00003 19353+         SRL   R6,3          CONVERT TO INDEX                         06450034
00E0D0 4110 D1A8           0E1D0 19354+         LA    R1,SERCCB     POINT AT SERVICE TASK CCB                06500034
                           00000 19355+         USING CCBADR,R1     NEED ADDRESSIBILITY                      06550034
00E0D4 4260 1007           00007 19356+         STC   R6,CCBLNO     SET PUB INDEX FOR PHYSICAL ADDRING       06600034
00E0D8 9608 1006      00006      19357+         OI    CCBCLS,CCBPHYAD INDICATE PUB INDEX IS USED             06650034
00E0DC AD03 B65C      0165C      19358+         STOSM PSWMASK,ENABLE ENABLE FOR I/O INTERRUPTS                 06700034
                                 19359+* SUPERVISOR - SYSIO - 5745-SC-SUP - REL. 34.0                @D34SDAP 00500034
00E0E0 0A0F                      19360+         SVC   15                HEAD QUEUE I/O REQUEST     @D34SDAP 01860034
00E0E2 9180 1002      00002      19361+         TM    2(1),X'80'        HAS TRAFFIC BIT BEEN POSTED @D34SDAP 02300034
00E0E6 4710 D0C4      0E0EC      19362+         BO    *+6               YES                                      02400028
00E0EA 0A07                      19363+         SVC   7                 NO, WAIT FOR I/O COMPLETE  @D34SDAP 02500034
00E0EC ACFC B65C      0165C      19364+         STNSM PSWMASK,DISABLE DISABLE AGAIN                            06800034
                                 19365+* HAVE TO UPDATE SERVICE TASK SAVEAREA PSW ALSO                        06850034
00E0F0 5880 0794           00794 19366+         L     R8,ASYSBLKX   POINT AT CURRENT/SERVICE TASK BLOCK       06900034
                           00000 19367+         USING SYSBLKS,R8                                             06950034
00E0F4 5880 8004           00004 19368+         L     R8,SYSAVAR    POINT AT SAVEAREA                        07000034
                           00000 19369+         USING SVEARA,R8     STND SAVE AREA                           07050034
00E0F8 94FC 8008      00008      19370+         NI    SVEPSW,XFF-ENABLE DISABLE PSW                          07100034
                                 19371+         DROP  R8                                                     07150034
                                 19372+* CHECK RESULTS OF I/O                                                 07200034
00E0FC 9120 1002      00002      19373+         TM    CCBCOM1,DISERR IS DEVICE COMMUNICATING?                07250034
00E100 4710 D0EA      0E112      19374+         BO    SERSNS4       NO, TREAT AS SMALL CARTRIDGE             07300034
00E104 9101 D1BA      0E1E2      19375+         TM    SERSNSDA,SM3340 IS IT A SMALL 3340                     07350034
00E108 4710 D0EA      0E112      19376+         BO    SERSNS4       YES, SET AS SO IN PUB                    07400034
00E10C 926A 3004      00004      19377+         MVI   PUBDEVTY,T334070 NO, THEN MUST BE LARGE                07450034
00E110 07F7                      19378+         BR    R7            RETURN TO CALLER                         07500034
                          0E112  19379+SERSNS4  EQU   *                                                        07550034
00E112 9269 3004      00004      19380+         MVI   PUBDEVTY,T334036 SET SMALL DEVICE TYPE                 07600034
00E116 07F7                      19381+         BR    R7            RETURN TO CALLER                         07650034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0E118 19383+SERADD   EQU   *                                                        08550034
00E118 9101 0739           00739       19384+         TM    SYSFLAG2,IPLBIT IS IPL IN PROCESS          @DY13104 08600034
00E11C 4710 D180           0E1A8       19385+         BO    SERADD8      YES, DON'T UPSET              @DY13104 08620034
00E120 9268 3004           00004       19386+         MVI   PUBDEVTY,T3340 SIZE NOT SURELY KNOWN       @DY15098 08630034
00E124 1873                            19387+         LR    R7,R3        TAKE OVER PUB ADDRESS IN R7   @DY13104 08640034
00E126 4970 0690                 00690 19388+         CH    R7,YPUBTAB   HEADQUEUE REQUEST             @DY13104 08700034
00E12A 47B0 D112           0E13A       19389+         BNL   SERADD1      NO                            @DY13104 08750034
                                 00000 19390+         USING HQADR,R7     ADDRESSABILITY FOR HEADQUEUE PUB @DY13104 08800034
00E12E 4870 7008                 00008 19391+         LH    R7,HQPUBPTR  POINT TO ORIGINAL PUB         @DY13104 08850034
                                 00000 19392+         USING PUBADR,R7    ADDRESSABILITY                @DY13104 08900034
00E132 9568 7004           00004       19393+         CLI   PUBDEVTY,T3340 3340 WITH CARTR OF UNKNOWN SIZE @DY13104 08950034
00E136 4770 D180           0E1A8       19394+         BNE   SERADD8      NO, FORGET IT                 @DY13104 08980034
                           0E13A 19395+SERADD1  EQU   *                                                        09010034
00E13A 17FF                            19396+         XR    RF,RF        CLEAR PTR TO EMPTY SLOT                09100034
                                       19397+* FIND AN EMPTY SLOT FOR THIS REQUEST                             09150034
00E13C 4890 D18E                 0E1B6 19398+         LH    R9,RQTCNT    GET SIZE OF TABLE             @DY13104 09200034
00E140 4180 D194                 0E1BC 19399+         LA    R8,RQTTAB    POINT AT FIRST ENTRY                   09350034
                                 00000 19400+         USING RQTE,R8                                             09400034
                                 0E144 19401+SERADD2  EQU   *                                                   09450034
00E144 D603 8000 8000 00000 00000 19402+         OC    RQTPUB,RQTPUB IS ENTRY FREE?                           09500034
00E14A 4770 D12C           0E154       19403+         BNZ   SERADD3      NO, CHECK FOR DUPLICATE                09550034
00E14E 18F8                            19404+         LR    RF,R8        SAVE PTR TO EMPTY ENTRY                09600034
00E150 47F0 D134           0E15C       19405+         B     SERADD4      LOOK AT NEXT ENTRY                     09650034
                           0E154 19406+SERADD3  EQU   *                                                        09700034
00E154 5970 8000                 00000 19407+         C     R7,RQTPUB    IS A REQUEST ALREADY IN FOR DEV. @DY13104 09750034
00E158 4780 D180           0E1A8       19408+         BE    SERADD8      YES, FORGET THIS ONE          @DY13104 09770034
                           0E15C 19409+SERADD4  EQU   *                                                        09790034
00E15C 4180 8004                 00004 19410+         LA    R8,RQTNEXT   BUMP TO NEXT ENTRY                     09810034
00E160 4690 D11C                 0E144 19411+         BCT   R9,SERADD2   PROCESS REST OF TABLE           @DY13104 09830034
00E164 12FF                            19412+         LTR   RF,RF        WAS AN ENTRY FOUND?                    09850034
00E166 4780 D150           0E178       19413+         BZ    SERADD5      NO, TOO BAD HAVE AN OVERFLOW           09870034
00E16A 188F                            19414+         LR    R8,RF        GET ADDR OF EMPTY SLOT                 09890034
00E16C 5070 8000                 00000 19415+         ST    R7,RQTPUB    INFO NEEDED IS PUB ADDR       @DY13104 09910034
00E170 9680 D190           0E1B8       19416+         OI    RQTFLAGS,RQTWTD INDICATE WORK-TO-DO                  09930034
00E174 47F0 D154           0E17C       19417+         B     SERADD6      RETURN AFTER ACTIVATION IF NECESS. @DY13104 09950034
                           0E178 19418+SERADD5  EQU   *                                                        09970034
00E178 96C0 D190           0E1B8       19419+         OI    RQTFLAGS,RQTWTD+RQTOVFLW TABLE OVERFLOWED            09990034
                           0E17C 19420+SERADD6  EQU   *                                                   @DY13104 10010034
00E17C 950F 073D           0073D       19421+         CLI   SELECT,SVT   IS SERVICE TASK RUNNING NOW?    @DY13104 10030034
00E180 4780 D17A           0E1A2       19422+         BE    SERADD7      YES, NO NEED TO ACTIVATE      @DY13104 10050034
00E184 1788                            19423+         XR    R8,R8        FIND SYSTEM TASK BLOCK        @DY13104 10070034
00E186 4380 07A7                 007A7 19424+         IC    R8,SVTPTR    GET DISP TO BLOCK             @DY13104 10090034
00E18A 5A80 0790                 00790 19425+         A     R8,ASYSBLK0  POINT AT TASK CONTROL BLOCK   @DY13104 10110034
                                 00000 19426+         USING SYSBLKS,R8                                  @DY13104 10130034
00E18E 4880 8000                 00000 19427+         LH    R8,SYSPIBFL  GET ADDR OF PIB FLAG          @DY13104 10150034
00E192 9587 8000           00000       19428+         CLI   0(R8),BOUND  IS TASK IN-ACTIVE?             @DY13104 10170034
00E196 4770 D17A           0E1A2       19429+         BNE   SERADD7      NO, WORKING                   @DY13104 10190034
00E19A 9283 8000           00000       19430+         MVI   0(R8),READY  SET SERVICE TASK READY TO RUN   @DY13104 10210034
00E19E 920F 087D           0087D       19431+         MVI   SYSSZ+D1,SVT SEIZE THE SYSTEM               @DY15747 10211034
00E1A2 1937                            19432+SERADD7  CR    R3,R7        WAS IT HEADQUEUE PUB          @DY13104 10213034
00E1A4 4780 D184           0E1AC       19433+         BE    SERADD9      NO, TAKE 'DO NOT START' EXIT  @DY13104 10216034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E1A8 41EE 0004            00004 19434+SERADD8  LA    RE,D4(RE)    START AFTER RETURN                @DY13104 10219034
00E1AC 58D0 0884            00884 19435+SERADD9  L     RD,IOSBASE   RESTORE EXCP/SCHED BASE REGISTER  @DY13104 10222034
00E1B0 5890 070C            0070C 19436+         L     R9,AINTER    RESTORE IOINTER BASE REGISTER     @DY13104 10225034
00E1B4 07FE                       19437+         BR    RE           RETURN TO USER                              10230034
                                  19438+         DROP  R8,RD,R1                                                 10250034
                            00000 19439+         USING PUBADR,R3    STANDARD USING                    @DY13104 10270034
                            00000 19440+         USING CCWADR,R7    STANDARD USING                    @DY13104 10290034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E1B6 0002                      19442+RQTCNT   DC    H'2'         NO. OF ENTRIES IN TABLE                       10550034
00E1B8 00                        19443+RQTFLAGS DC    X'0'         CONTROL FLAGS FOR REQUEST TABLE               10600034
00E1B9 00                        19444+         DC    X'0'         RESERVED                                      10650034
00E1BA 0000
00E1BC 0000000000000000          19445+RQTTAB   DC    2F'0'         SERVICE TASK REQUEST TABLE                   10700034
00E1C4 00000000
00E1C8 0400E1E020000003          19446+SERCCW   CCW   RSENS,SERSNSDT,SLI,L'SERSNSDT FOR SIZE DETER.              10750034
                                 19447+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                       07100028
00E1D0 0000                      19448+SERCCB   DC    XL2'0' .           RESIDUAL COUNT                         49000028
00E1D2 0000                      19449+         DC    XL2'0'      .        COMMUNICATIONS BYTES                  50000028
00E1D4 0000                      19450+         DC    XL2'0' .           CSW STATUS BYTES                       51000028
00E1D6 01                        19451+         DC    AL1(1)      .           LOGICAL UNIT CLASS                 52000028
00E1D7 01                        19452+         DC    AL1(1)    .           LOGICAL UNIT                         53000028
00E1D8 00                        19453+         DC    XL1'0'                                                     54000028
00E1D9 00E1C8                    19454+         DC    AL3(SERCCW) .      CCW ADDRESS                            55000028
00E1DC 00                        19455+         DC    B'00000000'     .      STATUS BYTE                       56000028
00E1DD 000000                    19456+         DC    AL3(0) .           CSW CCW ADDRESS                        57000028
00E1E0                           19457+SERSNSDT DC    0XL3'0'      SENSE DATA AREA                               10850034
00E1E0 0000                      19458+         DC    XL2'0'       UNUSED                                        10900034
00E1E2 00                        19459+SERSNSDA DC    X'0'         SIZE DATA                                     10950034
00E1E3 00
00E1E4                           19460+         DC    0H'0'        FORCE ALIGNMENT                               11000034
                                 19461+* SUPERVISOR - SGCFCH -- 5745-SC-SUP - REL. 34.1              @DY15313 02000034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E1E4 07FC                      19463+SGPGM    BR    RC                BRANCH TO SVC ROUTINE        @D34RDFG 02650034
                         0E1E4 19464+         USING SGPGM,RD          COMMON BASE OF SGPGM         @D34RDFG 02700034
                         00000 19465+         USING SVEARA,R8         SAVE AREA POINTER            @D34RDFG 02750034
                         00000 19466+         USING PIBADR,RA                                      @D34ADVB 02770034
                               19467+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 02800034
                               19468+*                                                               * 02850034
                               19469+* SVC 1: LOAD AND EXECUTE A PROBLEM PROGRAM PHASE.               * 02900034
                               19470+*                                                               * 02950034
                               19471+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03000034

00E1E6 1B00                      19473+SVC01    SR    R0,R0 .           NO LOAD ADDRESS SUPPLIED               03100034
00E1E8 5880 0708                 19474+         L     R8,AFETCH         GET ADDRESS OF FETCH ROUTINE @DL29ZCF 03150034
00E1EC 0598                      19475+         BALR  R9,R8             READ IN THE PHASE            @DL29ZCF 03200034
00E1EE 9283 A000      00000      19476+         MVI   PIBFLG,READY .    MAKE TASK READY TO RUN             303 03250034
00E1F2 5880 A004                 19477+         L     R8,PIBSAVE .      SET UP SAVE AREA POINTER           303 03300034
00E1F6 BF9F 802C                 19478+         ICM   R9,M15,SVER00     ENTRY ADDR OVERRIDE?         @DL29ZCJ 03350034
00E1FA 4780 D01E      0E202      19479+         BZ    SVC01A .          NO, USE ADDRESS FROM FETCH   @DL29ZCJ 03400034
00E1FE 1B02                      19480+         SR    R0,R2             SET TO RELOCATE EP           @DL29ZCJ 03450034
00E200 1A09                      19481+         AR    R0,R9             FORM EP OVERRIDE             @DL29ZCJ 03500034
00E202 5000 800C                 19482+SVC01A   ST    R0,SVEPSW2 .      STORE ENTRY ADDRESS IN PSW             03550034
00E206 9200 800C      0000C      19483+         MVI   SVEPSW2,ZERO .    CLEAR HIGH ORDER BYTE              130 03600034
00E20A 07F6                      19484+         BR    R6 .              EXIT                                   03650034


                               19486+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03750034
                               19487+*                                                               * 03800034
                               19488+* SVC 2: LOAD AND EXECUTE A LOGICAL TRANSIENT.                  * 03850034
                               19489+*                                                               * 03900034
                               19490+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03950034


                         0E20C 19492+SVC02    EQU   * .               FETCH A B-TRANSIENT                    04050034
00E20C 4400 B2D2         012D2 19493+SVC02LTA EX    R0,COMPCLC .      REQUEST FROM LT-AREA         @DA08681 04550034
00E210 4780 D06A      0E24E      19494+         BE    SVC02A .          YES,SKIP                     @DA08681 04600034
00E214 D507 1000 B874 00000 01874 19495+         CLC   D0(L8,R1),BDUMP . IS $$BDUMP BEING FETCHED?  @DA08681 04700034
                         0E21A 19496+PCKSVC02 EQU   *                 PAGE FAULT MAY OCCUR HERE    @D34ADVB 04750034
00E21A 4780 D044      0E228      19497+         BE    SVC02B                                         @DA09069 04840034
00E21E D507 1000 B87C 00000 0187C 19498+         CLC   D0(L8,R1),JDUMP   IS $$BJDUMP BEING FETCHED? @DA09069 04870034
00E224 4770 D050      0E234      19499+         BNE   SVC02J            NO                           @DA09069 04900034
                         0E228 19500+SVC02B   EQU   *                                              @DA09069 04910034
00E228 58D0 0894         00894 19501+         L     RD,APBASE         ASYNCHR.PROCESSING BASE      @D34RDFG 04950034
                         0E722 19502+         USING SGAP,RD                                        @D34RDFG 05000034
00E22C 4540 D042         0E764 19503+         BAL   R4,CNCEL0 .       IS IT M.TASK WITH S.TASK ATT @DA08681 05050034
00E230 58D0 088C         0088C 19504+         L     RD,PGMBASE        RESTORE CURRENT BASE         @D34RDFG 05100034
                         0E1E4 19505+         USING SGPGM,RD                                       @D34RDFG 05150034
                         0E234 19506+SVC02J   EQU *                                                @DA08681 05250034
00E234 95FF D118      0E2FC      19507+         CLI   BTRIK,NOBTFCH     B-TR. FETCH IN PROGRESS      @DA08681 05300034
00E238 4780 D062      0E246      19508+         BE    SVC02K            NO, CHECK TRTLTK             @DA03160 05350034
00E23C D500 D118 0753 0E2FC 00753 19509+         CLC   BTRIK,TIK+1       FETCH FOR THIS TASK          @DA03160 05650034
00E242 4780 D06A      0E24E      19510+         BE    SVC02A            YES                          @DA03160 05700034
00E246 9583 0967      00967      19511+SVC02K   CLI   TRTLTK,READY .    IS THE LTA ACTIVE?           @DA03160 05800034
00E24A 4770 0FAC      00FAC      19512+         BNE   SVC2WAIT .        YES,SET PIBFLAG TO SVC2BND             05850034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E24E 5880 0708            00708 19513+SVC02A   L     R8,AFETCH           GET ADDRESS OF FETCH ROUTINE @DM06304 05900034
00E252 9500 0955      00955       19514+         CLI   TRTIDRA,ZERO .      IS IDRA IN USE               @DM06304 06150034
00E256 0788                       19515+         BER   R8                  YES,DON'T OVERRIDE PSW ADDR  @DL29ZCF 06250034
00E258 9102 0689      00689       19516+         TM    LCBYTE,FCHQ         SCIL UPDATE IN PROGRESS ?    @DM06304 06300034
00E25C 0718                       19517+         BOR   R8                  YES,DON'T OVERRIDE PSW ADDR  @DM06304 06350034
00E25E 58F0 0714            00714 19518+         L     RF,ALTA .           GET LOAD ADDRESS                  190 06400034
00E262 5880 0870            00870 19519+         L     R8,LTAREA2 .        GET ADDRESS OF LTA SAVE AREA      191 06450034
00E266 90F1 8028            00028 19520+         STM   RF,R1,SVER0F .      PASS REGISTERS R15, R0 AND R1 TO LTA  06500034
                                  19521+*        NOTE: R0 MAY BE USED TO PASS INFORMATION FROM PP TO LTA      * 06550034
00E26A 180F                       19522+         LR    R0,RF .             GET LOAD ADDRESS IN R0                06600034
00E26C 41FF 0008            00008 19523+         LA    RF,D8(RF) .         POINT TO LTA ENTRYPOINT               06650034
00E270 50F0 800C            0000C 19524+         ST    RF,SVEPSW2 .        MOVE ENTRYPOINT TO LTA PSW            06700034
00E274 9607 8008      00008       19525+         OI    SVEPSW,ENABLE+SMDAT ENABLE LTA PSW                 EM 06750034
00E278 9200 0967      00967       19526+         MVI   TRTLTK,ZERO         SET TRTLTK BUSY              @DA03160 06800034
00E27C D200 06BF 067F 006BF 0067F 19527+         MVC   LTKEY+1(L1),PIK+1   SET LTKEY                     @DM11453 06850034
00E282 D200 0751 0753 00751 00753 19528+         MVC   LIK+1(L1),TIK+1     SET LIK                      @DA03160 07100034
00E288 D200 D118 0753 0E2FC 00753 19529+         MVC   BTRIK(L1),TIK+1     SET B-TR. IDENT. KEY         @DA03160 07150034
00E28E 5880 0708            00708 19530+         L     R8,AFETCH           GET ADDRESS OF FETCH ROUTINE @DL29ZCF 07250034
00E292 9564 A001      00001       19531+         CLI   PIBCNCL,X'64'       VSAM DELAY CANCEL?           @DY14482 07300034
00E296 4780 D0BA      0E29E       19532+         BE    VSAMDEL             YES, LEAVE EOJ BIT ON        @DY14482 07310034
00E29A 94F7 A00F      0000F       19533+         NI    PIBFLG2,X'FF'-FETCHEOJ ALLOW EOJ PROCESSING      @DA04980 07340034
00E29E 0598                       19534+VSAMDEL  BALR  R9,R8                READ IN THE PHASE            @DY12276 07360034
00E2A0 92FF D118      0E2FC       19535+         MVI   BTRIK,NOBTFCH       SET OFF B-TR. IDENT. KEY     @DA03160 07400034
00E2A4 9283 A000      00000       19536+         MVI   PIBFLG,READY .      MAKE TASK READY TO RUN            303 07450034
00E2A8 4400 B2D2            012D2 19537+         EX    R0,COMPCLC .        WAS THE LTA IN USE?                   07500034
00E2AC 0786                       19538+         BCR   E,R6 .              YES,DON'T SWAP POINTERS               07550034
00E2AE 4820 06AA            006AA 19539+SETLT    LH    R2,YPIBTAB .        POINT TO AR PIB              @DY11772 07600034
00E2B2 BF87 2009            00009 19540+         ICM   R8,M7,D9(R2)        IS THIS AR SVC11             @DY11772 07620034
00E2B6 5880 A004            00004 19541+         L     R8,PIBSAVE          GET SAVE AREA ADDRESS        @DY11772 07640034
00E2BA 4770 D0DE      0E2C2       19542+         BNZ   NOAR11              NO, LEAVE AR PIB FLAG        @DY11772 07660034
00E2BE 9280 2000      00000       19543+         MVI   D0(R2),NOTACT       IN CASE OF PDAID RE-SVC      @DY11772 07680034
00E2C2 D202 A005 2009 00005 00009 19544+NOAR11   MVC   PIBSAVE+D1(L3),D9(R2) SWITCH LTA AND PP           @DY11772 07700034
00E2C8 BE87 2009            00009 19545+         STCM  R8,M7,D9(R2) .      SAVE AREA POINTERS                 435 07750034
00E2CC 4820 06CC            006CC 19546+         LH    R2,YPIB2TAB         GET AR-PIB EXTENSION         @DM02326 07800034
00E2D0 4BA0 0BDE            00BDE 19547+         SH    RA,PIBDIFF          PARTITION PIB EXTENSION      @DM02326 07850034
00E2D4 5880 A004            00004 19548+         L     R8,INTINFO          GET INTERRUPT INFO AND SWAP  @DM02326 07900034
00E2D8 D203 A004 2004 00004 00004 19549+         MVC   INTINFO,D4(R2)      WITH INFO OF LTA IN THE      @DM02326 07950034
00E2DE 5082 0004            00004 19550+         ST    R8,D4(R2)           AR PIB EXTENSION             @DM02326 08000034
00E2E2 BF8F 0754            00754 19551+         ICM   R8,M15,APOWTB       ADDR POWER TABLE             @D30EULR 08100034
00E2E6 4780 D112      0E2F6       19552+         BZ    PWRLTA              BRANCH IF POWER NOT ACTIVE   @D30EULR 08150034
                                  00000 19553+   USING PADS,R8             ADDRESSABILITY POWER TABLE   @D30EULR 08200034
00E2EA 9680 8152      00152       19554+         OI    PAEB+2,TRABIT       POST POWER MAIN ECB          @D30EULR 08250034
00E2EE 5880 816C            0016C 19555+         L     R8,CAPB             ADDR POWER PART. PIB         @D30EULR 08300034
                                  19556+         DROP  RA                  DROP STANDARD USING          @D30EULR 08350034
                                  00000 19557+   USING PIBADR,R8           ADDRESSABILITY POWER PIB     @D30EULR 08400034
00E2F2 9601 8000      00000       19558+         OI    PIBFLG,IOCMPL       POST POWER PIB               @D30EULR 08450034
                                  00000 19559+   USING SVEARA,R8           RESET STANDARD USING         @D30EULR 08500034
                                  00000 19560+   USING PIBADR,RA           RESET STANDARD USING         @D30EULR 08550034
00E2F6                            19561+PWRLTA   DS    0H                                               @D30EULR 08600034
00E2F6 4AA0 0BDE            00BDE 19562+         AH    RA,PIBDIFF          RESTORE ORIGINAL PIB POINTER @DM02326 08700034
00E2FA 07F6                       19563+         BR    R6 .                EXIT                                  08750034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E2FC FF                        19564+BTRIK    DC    X'FF'            B-TR. FETCH INFO KEY         @DA03160 08800034
                          000FF  19565+NOBTFCH  EQU   X'FF'            NO B-TR. FETCH IN PROGRESS   @DA03160 08850034



                                 19567+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 08950034
                                 19568+*                                                                               * 09000034
                                 19569+* SVC 4: LOAD A PROBLEM PROGRAM PHASE AND RETURN TO THE USER                    * 09050034
                                 19570+*                                                                               * 09100034
                                 19571+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 09150034

00E2FD 00
00E2FE 5880 0708           00708 19573+SVC04    L     R8,AFETCH          ADDRESS FETCH ROUTINE        @DL29ZCF 09250034
00E302 0598                      19574+         BALR  R9,R8              READ IN THE PHASE            @DL29ZCF 09300034
00E304 9283 A000      00000      19575+SVC04RET MVI   PIBFLG,READY .     MAKE TASK READY TO RUN       @DM01378 09350034
00E308 5880 A004           00004 19576+         L     R8,PIBSAVE .       SET UP SAVE AREA POINTER          303 09400034
00E30C 5910 8030           00030 19577+         C     R1,SVER01          WAS R1 ALTERED DURING FETCH? @DL29ZCJ 09450034
00E310 4780 D134      0E318      19578+         BE    SVC04R1            NO, NO NEED TO DESTROY R0    @DL29ZCJ 09500034
00E314 5010 802C           0002C 19579+         ST    R1,SVER00          PASS FETCH PARAM TO R0       @DL29ZCJ 09550034
00E318 5000 8030           00030 19580+SVC04R1  ST    R0,SVER01 .        PASS ENTRY ADDR TO USER REG1 @DL29ZCJ 09600034
00E31C 9200 8030      00030      19581+         MVI   SVER01,ZERO .      CLEAR HIGH ORDER BYTE                09650034
00E320 5860 086C           0086C 19582+         L     R6,DISPAD          ADDRESS OF DISPATCHER        @D34RDFG 09700034
00E324 07F6                      19583+         BR    R6                 GO DISPATCH NEXT TASK        @D34RDFG 09750034



                                 19585+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 09900034
                                 19586+*                                                                               * 09950034
                                 19587+* SVC 8: TEMPORARILY RETURN FROM LOGICAL TRANSIENT TO THE PROBLEM               * 10000034
                                 19588+*        PROGRAM. THE TRANSIENT IS NOT RELEASED.                                * 10050034
                                 19589+*                                                                               * 10100034
                                 19590+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 10150034

00E326 4820 06AA           006AA 19592+SVC08    LH    R2,YPIBTAB .       POINT TO AR PIB                   463 10250034
                                 19593+         DROP  RA .               DROP RA                           435 10300034
                          00000  19594+         USING PIBADR,R2 .        PIB BASE R2                       435 10350034
00E32A 5880 2008           00008 19595+         L     R8,ARFLG .         POINT TO PP SAVE AREA.            435 10400034
                           00000 19596+         USING PIBADR,RA .        PIB BASE RA                       435 10450034
00E32E 5870 A004           00004 19597+         L     R7,PIBSAVE .       GET POINTER TO LTA SAVE AREA           10500034
00E332 D203 702C 800C 0002C 0000C 19598+         MVC   D44(L4,R7),SVEPSW2 SAVE PP PSW ADDRESS IN LTA R0          10550034
00E338 D202 800D 7025 0000D 00025 19599+         MVC   SVEPSW2+D1(L3),D37(R7) STORE ADDR PASSED BY TRANS    424 10600034
00E33E 47F0 D178      0E35C      19600+         B     SVC89 .            SET UP SAVE AREA POINTER IN PIB        10650034



                                 19602+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 10750034
                                 19603+*                                                                               * 10800034
                                 19604+* SVC 9: RETURN TO LOGICAL TRANSIENT AFTER AN SVC 8 IS ISSUED.                  * 10850034
                                 19605+*                                                                               * 10900034
                                 19606+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 10950034

                          0E342  19608+SVC09    EQU   *                                                 @DA01131 11050034
00E342 4400 0FAC           00FAC 19609+         EX    R0,SVC2WAIT        DOES TASK OWN LTA             @DA01131 11100034
00E346 4770 09EA      009EA      19610+         BNE   ERR21              NO,ILLEGAL SVC                @DA01131 11150034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E34A 4820 06AA            006AA 19611+         LH    R2,YPIBTAB .       POINT TO AR PIB              @DA01131 11200034
                            19612+         DROP  RA .                       DROP RA                           435 11250034
                      00000 19613+         USING PIBADR,R2 .                PIB BASE R2                       435 11300034
00E34E 5880 2008      00008 19614+         L     R8,ARFLG .                 POINT TO PP SAVE AREA.            435 11350034
                      00000 19615+         USING PIBADR,RA .                PIB BASE RA                       435 11400034
00E352 5870 A004      00004 19616+         L     R7,PIBSAVE .               GET POINTER TO PP SAVE AREA           11450034
00E356 D203 700C 802C 0000C 0002C 19617+         MVC   D12(L4,R7),SVER00 .RESTORE PP PSW ADDRESS                11500034
00E35C 9001 802C      0002C 19618+SVC89    STM   R0,R1,SVER00 .           PASS REGISTERS 0 AND 1                11550034
00E360 47F0 D0CA      0E2AE 19619+         B     SETLT .                    GO SWITCH SAVE AREA POINTERS          11600034

                            19621+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 11700034
                            19622+*                                                                            * 11750034
                            19623+*SVC 11: RETURN FROM A LOGICAL TRANSIENT RELEASEING THE LTA.                  * 11800034
                            19624+*                                                                            * 11850034
                            19625+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 11900034

                      0E364 19627+SVC11    EQU   * .                      RELEASE LTA                           12000034
00E364 4400 B2D2      012D2 19628+         EX    R0,COMPCLC .               REQUEST FROM LTA             @D30EULR 12050034
00E368 4770 09EA      009EA 19629+         BNE   ERR21 .                    NO,ILLEGAL SVC                        12100034
00E36C 9283 0967      00967 19630+         MVI   TRTLTK,READY               SET TRTLTK FREE              @DA03160 12150034
00E370 9200 06BF      006BF 19631+         MVI   LTKEY+1,ZERO               RESET LTKEY                  @DM11453 12200034
00E374 9200 0751      00751 19632+         MVI   LIK+1,ZERO                 RESET LIK                    @DA03160 12300034
00E378 4560 D0CA      0E2AE 19633+         BAL   R6,SETLT                   SWAP SAVE AREA POINTERS      @DA03160 12450034
00E37C 5860 086C      0086C 19634+S11CONT  L     R6,DISPAD                  SET UP EXIT ADDRESS          @DM05356 13300034
00E380 9120 0739      00739 19635+         TM    SYSFLAG2,TRINT .           TIMER INTERRUPT PENDING               13350034
00E384 0786                 19636+         BCR   Z,R6 .                     NO EXIT                               13400034
00E386 94DF 0739      00739 19637+         NI    SYSFLAG2,XFF-TRINT         RESET TIMER PENDING SWITCH        520 13450034
00E38A 58E0 0878      00878 19638+VTAMRETA L     RE,AEXTRTN .               GET BASE FOR EXT.INT.HANDLER @D34RDVB 13500034
                      02D68 19639+         USING EXTRTN,RE .                DECLARE ADDRESSABILITY            520 13550034
00E38E 47F0 E064      02DCC 19640+         B     EXTRETRN .                 RESUME INTERRUPT PROCESSING       520 13600034

                            19642+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 13900034
                            19643+*                                                                            * 13950034
                            19644+*SVC 12: RESET FLAGS TO 0 IN THE LINKAGE CONTROL BYTE OF THE                 * 14000034
                            19645+*        COMMUNICATIONS REGION.                                              * 14050034
                            19646+*                                                                            * 14100034
                            19647+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14150034

00E392 5820 0014      00014 19649+SVC12    L     R2,CRADDR .                SET UP COMREG POINTER                 14250034
                      00000 19650+         USING COMREG,R2 .                COMREG POINTER               @DM11453 14300034
                            19651+*                                                                          GS 14400034
                            19652+*              IF R1=0, SVC 12 HAS ANOTHER MEANING -                       GS 14450034
                            19653+*              BIT 5 OF JCSW6 (COMREG BYTE 59) IS TURNED OFF               GS 14500034
                            19654+*                                                                          GS 14550034
00E396 1211                 19655+         LTR   R1,R1 .                    IF R1 NOT ZERO                      GS 14600034
00E398 4770 D1BE      0E3A2 19656+         BNZ   SVC12A .                   GO TO NORMAL ROUTINE         @DM01452 14650034
00E39C 94FB 203B      0003B 19657+         NI    JCSW4,JC59OFF .            TURN OFF BIT 5 OF BYTE 59    @DM11453 14700034
00E3A0 07F6                 19658+         BR    R6 .                       EXIT                         @DM01452 14750034
00E3A2 4550 D274      0E458 19659+SVC12A   BAL   R5,SVC1213               TEST FOR GENERAL PURPOSE SVC  @DM01452 14850034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E3A6 9102 0689      00689       19660+         TM    LCBYTE,FCHQ        IS FETCH QUEUED              @DA08164 14900034
00E3AA 0500                       19661+         BALR  R0,R0              REMEMBER CONDTION CODE       @DA08164 14950034
00E3AC 4410 D222            0E406 19662+         EX    R1,SVC12NI         TURN OFF REQUESTED BITS      @DA08164 15000034
00E3B0 9140 2039      00039       19663+         TM    JCSW2,SLD          IS SLD CREATE IN PROGRESS    @DA08164 15050034
00E3B4 4710 D1DE      0E3C2       19664+         BO    SVC12B             YES, BYPASS SETTING PROT.KEY @DA08164 15100034
00E3B8 5880 A004            00004 19665+         L     R8,PIBSAVE         GET SAVE AREA ADDRESS        @DA08164 15150034
00E3BC D300 8009 067F 00009 0067F 19666+         MVZ   SVEPSW+D1(L1),PIK+D1 SET PROTECT KEY              @DA08164 15200034
00E3C2 9102 0689      00689       19667+SVC12B   TM    LCBYTE,FCHQ        IS FETCH QUEUED              @DA08164 15250034
00E3C6 0716                       19668+         BOR   R6                 YES, EXIT                    @DA08164 15300034
00E3C8 0400                       19669+         SPM   R0                 WAS FETCH QUEUED?            @DA08164 15350034
00E3CA 0786                       19670+         BZR   R6                 NO, EXIT                     @DA08164 15400034
00E3CC 9140 073A      0073A       19671+         TM    SYSFLAG3,WAITRAS   IS RAS IN SPECIAL WAIT       @DM11717 15500034
00E3D0 47E0 D202      0E3E6       19672+         BNO   SVC12C             NO,SKIP                      @DM11717 15550034
00E3D4 1B99                       19673+         SR    R9,R9              CLEAR                        @DM11717 15600034
00E3D6 4390 079B            0079B 19674+         IC    R9,RASPTR          INDEX FOR RAS TASK           @DM11717 15650034
00E3DA 5A90 0790            00790 19675+         A     R9,ASYSBLK0        POINT TO RAS BLOCK           @DM11717 15700034
00E3DE 4899 0000            00000 19676+         LH    R9,SYSPIBFL-SYSBLKS(R9) POINT TO PIBFLAG           @DM11717 15750034
00E3E2 9283 9000      00000       19677+         MVI   D0(R9),READY       READY RAS TASK               @DM11717 15800034
                            0E3E6 19678+SVC12C   EQU   *                                                @DM11717 15850034
00E3E6 4590 0B74            00B74 19679+         BAL   R9,FCHCLR          FREE FETCH RESOURCE          @DA02769 15950034
00E3EA D201 00BA 07DC 000BA 007DC 19680+         MVC   CHNADR,SYSOCDEV    FORCE SCAN OPER DEV CHAN     @DY15313 16000034
00E3F0 5890 070C            0070C 19681+         L     R9,AINTER          SETUP INTRTN BASE            @DA02769 16020034
                            02EDA 19682+         USING INTRTN,R9                                       @D34ADVB 16040034
00E3F4 1B88                       19683+         SR    R8,R8              CLEAR REGISTER               @DA06955 16060034
00E3F6 4380 07DC            007DC 19684+         IC    R8,SYSOCDEV        GET CHAN# OPER DEVICE        @DY15313 16080034
00E3FA 4388 08F6            008F6 19685+         IC    R8,CHNDIS(R8)      CALCULATE DISPLACEMENT       @DA06955 16150034
00E3FE 5A80 0734            00734 19686+         A     R8,ACHNTAB         SET POINTER TO CHANNEL TABLE @DA06955 16200034
00E402 47F0 9834      0370E       19687+         B     INITRG1            GO KICKOFF MPX CHAN          @DA02769 16250034
                                  19688+         DROP  R9                                              @D34ADVB 16270034
00E406 9400 3000      00000       19689+SVC12NI  NI    D0(R3),0           EXECUTE 'AND' INSTRUCTION    @DA08164 16300034


                                  19691+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16400034
                                  19692+*                                                               * 16450034
                                  19693+*SVC 13: SET FLAGS TO 1 IN THE LINKAGE CONTROL BYTE OF THE      * 16500034
                                  19694+*        COMMUNICATIONS REGION.                                 * 16550034
                                  19695+*                                                               * 16600034
                                  19696+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16650034

00E40A 5820 0014            00014 19698+SVC13    L     R2,CRADDR .        SET UP COMREG POINTER                16750034
                                  19699+*                                                                 GS 16850034
                                  19700+*              IF R1=0,SVC13 HAS ANOTHER MEANING -                GS 16900034
                                  19701+*              BIT 5 OF JCSW6 (COMREG BYTE 59) IS TURNED ON       GS 16950034
                                  19702+*                                                                 GS 17000034
00E40E 1211                       19703+         LTR   R1,R1 .            IF R1 NOT ZERO                 GS 17050034
00E410 4770 D236      0E41A       19704+         BNZ   SVC13A .           GO TO NORMAL ROUTINE           GS 17100034
00E414 9604 203B      0003B       19705+         OI    JCSW4,JC59ON .     TURN ON BIT 5 OF BYTE 59     @DM11453 17150034
00E418 07F6                       19706+         BR    R6 .               EXIT                           GS 17200034
00E41A 4550 D274            0E458 19707+SVC13A   BAL   R5,SVC1213        TEST FOR GENERAL PURPOSE SVC @DM01452 17300034
00E41E 4100 0689            00689 19708+         LA    R0,LCBYTE          POINT TO LCBYTE              @DA08164 17350034
00E422 1903                       19709+         CR    R0,R3              ARE WE SETTING LCBYTE        @DA08164 17400034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E424 4770 D258      0E43C       19710+         BNE   SVC13B              NO, BYPASS FUTHER TESTING    @DA08164 17450034
00E428 4410 D26C            0E450 19711+         EX    R1,SVC13TM          ARE WE SETTING FCHQ BIT      @DA08164 17500034
00E42C 4780 D258      0E43C       19712+         BZ    SVC13B              NO, DO'T WAIT FOR FETCH      @DA08164 17550034
00E430 4140 006F            0006F 19713+         LA    R4,IDRABND          SET IDRA BOUND CONDITION     @DL29ZCJ 17800034
00E434 9180 0B79      00B79       19714+         TM    FCHGATE,CLOSE       FETCH ACTIVE?                @DL29ZCJ 17900034
00E438 4710 0FE0      00FE0       19715+         BO    RESVCX              YES, ENQUEUE REQUEST         @DL29ZCJ 17950034
00E43C 4410 D270            0E454 19716+SVC13B   EX    R1,SVC13OI .        SET REQUESTED BITS           @DA08164 18000034
00E440 9140 2039      00039       19717+         TM    JCSW2,SLD           IS SLD CREATE IN PROGRESS    @DA08164 18050034
00E444 0786                       19718+         BZR   R6                  NO, EXIT                     @DL29ZCJ 18100034
00E446 5880 A004            00004 19719+         L     R8,PIBSAVE          POINT TO SAVE AREA           @DL29ZCJ 18150034
00E44A 940F 8009      00009       19720+         NI    SVEPSW+1,X0F        SET KEY 0                    @DL29ZCJ 18200034
00E44E 07F6                       19721+         BR    R6 .                EXIT                                  18250034
00E450 9100 D295      0E479       19722+SVC13TM  TM    SVC13FQ,0           EXECUTED 'TEST' INSTRUCTION  @DA08164 18300034
00E454 9600 3000      00000       19723+SVC13OI  OI    D0(R3),0            EXECUTE 'OR' INSTRUCTION     @DA08164 18350034


00E458 BD18 D294            0E478 19725+SVC1213  CLM   R1,M8,SVC12FF       IS IT OLD DEFINITION         @DA08164 18450034
00E45C 4770 D28A      0E46E       19726+         BNE   SVC1213A            BRANCH IF OLD SVC12/13       @DA08164 18500034

                                  19728+* FOR NEW DEFINITION, R1 CONTAINS:                          @DA08164 18600034
                                  19729+* BYTE 0 FLAG VALUE OF X'FF'                                @DA08164 18650034
                                  19730+* BYTE 1 DON'T CARE                                         @DA08164 18700034
                                  19731+* BYTE 2 DISPLACEMENT INTO COMREG OF BYTE TO BE ALTERED     @DA08164 18750034
                                  19732+* BYTE 3 'MASK' BY WHICH TO ALTER COMREG                    @DA08164 18800034
00E460 1831                       19733+         LR    R3,R1               NEW DEFINITION, GET COMREG.. @DA08164 18850034
00E462 8930 0010            00010 19734+         SLL   R3,L16              DISPLACEMENT INTO...         @DA08164 18900034
00E466 8830 0018            00018 19735+         SRL   R3,L24              REGISTER R3                  @DA08164 18950034
00E46A 1A32                       19736+         AR    R3,R2               R3=ADDR BYTE TO BE ALTERED   @DA08164 19000034
00E46C 07F5                       19737+         BR    R5                  RETURN                       @DA08164 19050034

                                  19739+* FOR OLD DEFINITION COME HERE                              @DA08164 19150034
                                  19740+* R1 POINTS TO BYTE BY WHICH TO ALTER JCSW2                 @DA08164 19200034
00E46E 4311 0000            00000 19741+SVC1213A IC    R1,D0(R1)           R1,BYTE R3=MASK TO ALTER BYTE@DA08164 19250034
00E472 4130 2039            00039 19742+         LA    R3,JCSW2            R3,ADDR BYTE TO ALTER        @DA08164 19300034
00E476 07F5                       19743+         BR    R5                  RETURN                       @DA08164 19350034
                                  19744+         DROP R2                   DROP COMREG BASE             @DA08164 19400034

00E478 FF                         19746+SVC12FF  DC    XL1'FF'             MASK FOR NEW SVC(R1,BYTE0)   @DA08164 19500034
00E479 02                         19747+SVC13FQ  DC    AL1(FCHQ)           MASK BYTE FOR TESTING FCHQ   @DA08164 19550034


                                  19749+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 19700034
                                  19750+*                                                                 * 19750034
                                  19751+*SVC 23: LOAD PHASE HEADER.                                       * 19800034
                                  19752+*                                                                 * 19850034
                                  19753+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 19900034

00E47A 91F0 0021      00021       19755+SVC23    TM    SVOLDP+1,KEY0 .     IS PSW KEY ZERO                   303 20000034
00E47E 4770 09EA      009EA       19756+         BNZ   ERR21 .             NO,ILLEGAL SVC                    303 20050034
00E482 1B99                       19757+         SR    R9,R9 .             SET RETURN CODE FOR SVC23         303 20100034
00E484 5880 0708            00708 19758+         L     R8,AFETCH           ADDRESS FETCH ROUTINE        @DL29ZCF 20150034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E488 07F8                       19759+         BR    R8                 LOAD PHASE HEADER           @DL29ZCF 20200034



                                  19762+*************************************************************************** 20400034
                                  19763+*        SVC51 PROVIDES THE USER WITH THE PHASE HEADER INFORMATION    * 20450034
                                  19764+*        IN A 12-BYTE AREA,THE ADDRESS OF WHICH IS GIVEN IN GENERAL   * 20500034
                                  19765+*        REGISTER 1. THE LAYOUT OF THE 12 BYTE FIELD  MUST BE         * 20550034
                                  19766+*        COMPATIBLE WITH THE FIRST 12 BYTES OF A DIRECTORY ENTRY.     * 20600034
                                  19767+*************************************************************************** 20650034

00E48A 5880 0708            00708 19769+SVC51    L     R8,AFETCH          ADDRESS FETCH ROUTINE       @DL29ZCF 20750034
00E48E 4190 0001            00001 19770+         LA    R9,ONE .           SET SVC51 INDICATOR               RJI 20800034
00E492 07F8                       19771+         BR    R8                 GO READ DIRECTORY           @DL29ZCF 20850034


                                  19773+         DROP  RD                                             @D34RDFG 20950034
                                  19774+*                                                              @D348DEM 00104534
                                  19775+*        SUPERVISOR - SGERP - 5745-SC-SUP - REL. 34.1          @DY15773 00105134
                                  19776+*                                                              @D348DEM 00105434
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E494 07FC                      19778+SGERP    BR    RC                BRANCH TO SVC 5              @D34RDFG 02750034
                          0E494  19779+         USING SGERP,RD          COMMON BASE FOR SGERP        @D34RDFG 02780034
                                 19780+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 02850034
                                 19781+*                                                                      * 02900034
                                 19782+* SVC 5: REQUEST FROM ERROR RECOVERY- LOAD AND EXECUTE A               * 02950034
                                 19783+*                                    PHYSICAL TRANSIENT.               * 03000034
                                 19784+*        OTHERWISE- MVCOM.                                             * 03050034
                                 19785+*                                                                      * 03100034
                                 19786+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03150034

00E496 5820 06F8                 006F8 19788+SVC05    L     R2,AERBLOC          SET ERBLOC BASE              @DM01435 03250034
00E49A 950B 073D      0073D      19789+         CLI   SELECT,ERP .        REQUEST FROM ERP             @DM01435 03300034
00E49E 4780 D0E6      0E57A      19790+         BE    ERPSVC .            YES, FETCH A- TRANSIENT            EM 03350034
00E4A2 4121 0003                 00003 19791+         LA    R2,D3(R1) .         GET LAST BYTE PAR. LIST          JAB 03400034
00E4A6 4580 B2C4                 012C4 19792+         BAL   R8,VALIDSVA .       VALIDATE ADDRESSES           @DM06083 03450034
00E4AA 1B33                      19793+         SR    R3,R3 .             CLEAR REGISTER                        03500034
00E4AC 4331 0001                 00001 19794+         IC    R3,D1(R1) .         INSERT LENGTH FIELD                03550034
00E4B0 1B44                      19795+         SR    R4,R4 .             CLEAR REGISTER                        03600034
00E4B2 4341 0003                 00003 19796+         IC    R4,D3(R1) .         COPY TO ADDRESS                    03650034
00E4B6 4940 08F2                 008F2 19797+         CH    R4,H8 .             DISP. LOWER THAN 8                 03700034
00E4BA 4740 09F2      009F2      19798+         BL    ERR25 .             YES, CANCEL                           03750034
00E4BE 4123 4000                 00000 19799+         LA    R2,D0(R3,R4) .      POINT TO UPPERMOST BYTE OF FIELD   EM 03800034
00E4C2 4920 B596                 01596 19800+         CH    R2,H24 .            DISP. HIGHER THAN 23               03850034
00E4C6 47B0 09F2      009F2      19801+         BNL   ERR25 .             YES, CANCEL                           03900034
00E4CA 1810                      19802+         LR    R1,R0 .             COPY FROM ADDRESS                     03950034
00E4CC 4121 3000                 00000 19803+         LA    R2,D0(R1,R3) .      POINT TO LAST BYTE OF FROM FIELD  435 04000034
00E4D0 4580 B2C4                 012C4 19804+         BAL   R8,VALIDSVA .       VALIDATE ADDRESS LIMITS      @DM06083 04050034
00E4D4 5A40 0014                 00014 19805+         A     R4,CRADDR .         SET UP  POINTER TO FIELD IN COMREG EM 04100034
00E4D8 4430 D04A                 0E4DE 19806+         EX    R3,MVC .            MOVE INFORMATION TO COM REG        EM 04150034
00E4DC 07F6                      19807+         BR    R6 .                EXIT                                  04200034
00E4DE D200 4000 1000 00000 00000 19808+MVC      MVC   D0(L0,R4),D0(R1) . MOVE COM                          435 04250034


                                 19810+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 04350034
                                 19811+*                                                                      * 04400034
                                 19812+*        INITIAL SELECTION OF ERROR RECOVERY.                          * 04450034
                                 19813+*                                                                      * 04500034
                                 19814+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 04550034


                          10260  19816+         USING ERBLOC,R2                                          @DM01435 04650034
                          0E4E4  19817+QUISIO   EQU   * .                                                       04700034
00E4E4 5820 06F8                 006F8 19818+         L     R2,AERBLOC          SET ERBLOC BASE              @DM01435 04750034
00E4E8 95AE 201B      1027B      19819+         CLI   ERQTYPE1,RMSAE .    CHECK FOR ALTERNATE ENTRY            HL 04850034
00E4EC 4770 D080      0E514      19820+         BNE   QUISNORM .         NORMAL ENTRY                         HL 04900034
00E4F0 D201 2006 2024 10266 10284 19821+         MVC   FTCHNM-1(L2),ERQNAME1 GET NAME OF ALT ENTRY PROG      HL 04950034
00E4F6 58A0 201C                 1027C 19822+         L     RA,ERQSEK1          REQUESTORS PIB ADDRESS       @DA05988 05000034
00E4FA 4BA0 06AA                 006AA 19823+         SH    RA,YPIBTAB          CALCULATE INTERRUPT KEY      @DA05988 05050034
00E4FE 40A0 0752                 00752 19824+         STH   RA,TIK              INTERRUPT KEY                @DA05988 05100034
00E502 4AA0 06CC                 006CC 19825+         AH    RA,YPIB2TAB         CORRESPONDING                @DA05988 05300034
00E506 D200 067F A00D 0067F 0000D 19826+         MVC   PIK+1(L1),PIBPIK+1  PIK VALUE                        @DA05988 05350034
00E50C 4AA0 0BDE                 00BDE 19827+         AH    RA,PIBDIFF          POINT TO FIRST PART OF PIB   @DA05988 05400034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E510 47F0 D0E4      0E578       19828+         B     GETERP              CALL THE PHASE                @DA05988 05450034

                            0E514 19830+QUISNORM EQU   * .                NORMAL ERP REQUEST                HL 05550034
00E514 D201 2006 B658 10266 01658 19831+         MVC   FTCHNM-1(L2),RMSSTAT1 CALL STATISTIC UPDATE ROUTINE  HL 05600034
00E51A D300 0753 2010 00753 10270 19832+         MVZ   TIK+1(L1),ERQCSW1  INTERRUPT KEY FOR ERP         @DA05988 05700034
00E520 48A0 06CC            006CC 19833+         LH    RA,YPIB2TAB        SET UP THE                    @DA05988 05950034
00E524 4AA0 0752            00752 19834+         AH    RA,TIK             CORRESPONDING                 @DA05988 06000034
00E528 D200 067F A00D 0067F 0000D 19835+         MVC   PIK+1(L1),PIBPIK+1 PIK FOR ERP                   @DA05988 06050034
00E52E 4AA0 0BDE            00BDE 19836+         AH    RA,PIBDIFF         POINT TO 1ST PART OF PIB      @DA05988 06100034
00E532 4830 2018            10278 19837+         LH    R3,ERQPUB1 .       SET UP PUB POINTER            @D30EUJH 06200034
00E536 4400 0B22            00B22 19838+         EX    R0,MVZONE .        GET ZONE OF DEVICE TYPE                07300034
00E53A 9550 0870      00870       19839+         CLI   DEVZON,TAPES .     IS DEVICE TAPE                         07350034
00E53E 4770 D0E4      0E578       19840+         BNE   GETERP .           NO,DON'T MODIFY PHASE NAME             07400034
00E542 9551 3004      00004       19841+         CLI   PUBDEVTY,T2495TC . 2495 TAPE CARTRIDGE READER           07450034
00E546 4780 D0E4      0E578       19842+         BE    GETERP .           YES,LEAVE PHASE NAME                   07500034

                                  19844+*                                                                    SD 07650034
                                  19845+*   THE PURPOSE OF THIS ROUTINE IS TO ELIMINATE THE FETCHING OF      SD 07700034
                                  19846+*   TAPE ERPS WHEN THAT TRANSIENT IS ALREADY IN THE PTA              SD 07750034
                                  19847+*                                                                    SD 07800034
00E54A 45E0 B292            01292 19848+RMST35   BAL   RE,RMSGETP2 .      GET PUB2 ADDRESS                  SD 07850034
                            00000 19849+         USING PUB2ADR,R8 .       SET BASE                               07900034
00E54E 9120 8008      00008       19850+         TM    P2TFLG1,P2TERP .   IS ERP IN CONTROL                 SD 07950034
00E552 47E0 D0DE      0E572       19851+         BNO   QUISTAPE .         IF NOT GO CALL $$ABERAA           SD 08000034
00E556 9180 0B79      00B79       19852+         TM    FCHGATE,CLOSE      IS FETCH IN PROGRESS          @DM05083 08050034
00E55A 4710 D0DE      0E572       19853+         BO    QUISTAPE           YES,DO NOT GO DIRECTLY TO PTA@DM05083 08100034
00E55E 5890 078C            0078C 19854+         L     R9,APTA .          LOAD POINTER TO PTA.                   08150034
00E562 D501 8006 9006 00006 00006 19855+         CLC   P2TNAME(L'P2TNAME),D6(R9) IS ERP ALREADY IN PTA       SD 08200034
00E568 4770 D0DE      0E572       19856+         BNE   QUISTAPE .         CALL $$ABERAA.                         08250034
                            00000 19857+         USING SVEARA,R8 .        STANDARD ADDRESSING                    08500034
00E56C 1809                       19858+         LR    R0,R9 .            COPY PTA ADDRESS                 DT84 08550034
00E56E 47F0 D0F6      0E58A       19859+         B     GOPTA .            YES ENTER PTA                    DT84 08600034
00E572 D201 2006 B65A 10266 0165A 19860+QUISTAPE MVC   FTCHNM-1(L2),RMSSTAT2 CALL TAPE STATISTIC UPDATE      HL 08650034
00E578 0A05                       19861+GETERP   SVC   5 .                SVC 5 TO ALLOW RESVC          @DM01378 08900034
                            0E57A 19862+ERPSVC   EQU   * .                SVC5 FROM PTA                     215 08950034
00E57A 4110 2000            10260 19863+         LA    R1,SVC5NM .        POINT R1 TO PHYS.TRANS.NAME   @DM01378 09000034
                                  19864+         DROP  R2                                           @DM01435 09050034
00E57E 5800 078C            0078C 19865+         L     R0,APTA .          GET LOAD ADDRESS IN R0                 09100034
00E582 5880 0708            00708 19866+         L     R8,AFETCH          GET FETCH ROUTINE ADDRESS     @DL29ZCF 09150034
                            060E8 19867+         USING FETCH,R8                                       @DL29ZCF 09200034
00E586 4590 8000            060E8 19868+         BAL   R9,FETCHERP .      READ IN THE PHASE             @DM01378 09400034
                            00000 19869+         USING SVEARA,R8          RESTORE STANDARD ADDRESSING   @DL29ZCF 09450034
                            0E58A 19870+GOPTA    EQU   * .                EM                                     09500034
00E58A 41B0 B750            01750 19871+         LA    RB,ERPBLOCK .      UPDATE POINTER TO CURR.SYSTEM TASK EM 09550034
00E58E 50B0 0794            00794 19872+         ST    RB,ASYSBLKX .                                         EM 09600034
00E592 18B0                       19873+         LR    RB,R0 .            SET BASE FOR PHYSICAL TRANSIENT    EM 09650034
00E594 9200 096B      0096B       19874+         MVI   TRTPTA,ZERO .      INDICATE PTA IN USE                RH 09700034
00E598 920B 073D      0073D       19875+         MVI   SELECT,ERP .       ACTIVATE ERP                     303 09900034
00E59C 0A21                       19876+         SVC   33 .               ALLOW TASK SELECTION          @DM01378 09950034
00E59E 47FB 000A      0000A       19877+         B     D10(RB) .          BRANCH TO PHYSICAL TRANSIENT        AC 10000034
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                                  19879+*************************************************************************** 10100034
                                  19880+*                                                                         * 10150034
                                  19881+*       THE FOLLOWING ROUTINE IS ALWAYS EXECUTED WHEN AN A-TRANSIENT      * 10200034
                                  19882+*       RETURNS TO THE SUPERVISOR. ERP TRANSIENTS RETURN AT LABEL         * 10250034
                                  19883+*       ERPEXIT,PHYSICAL ATTENTION RETURNS AT LABEL AREXIT.               * 10300034
                                  19884+*       RF IS PREVIOUSLY SET UP WITH THE CORRECT EXIT ADDRESS             * 10350034
                                  19885+*                                                                         * 10400034
                                  19886+*************************************************************************** 10450034

                                  19888+        DROP  RB                 DROP SUPERVISOR BASE          @DY13217 10550034
00E5A2 5860 06F8            006F8 19889+ERPEXIT L     R6,AERBLOC .       SET UP ERBLOC POINTER              463 10600034
                            10260 19890+        USING ERBLOC,R6 .        TEMPORARILY BASE FOR ERROR BLOCK    EM 10650034
00E5A6 95AE 601B      1027B       19891+        CLI   ERQTYPE1,RMSAE .   ALTERNATE ENTRY                    HL 10750034
00E5AA 4770 D176      0E60A       19892+        BNE   ERPNORM .          NO,NORMAL ENTRY                    HL 10800034
00E5AE 58F0 086C            0086C 19893+        L     RF,DISPAD .        SET RETURN TO DISPATCHER      @DM05356 10850034
00E5B2 95AF 6026      10286       19894+        CLI   ERQTFX1,RMSTF .    IS THIS A TFIXED RECORD             EM 10900034
00E5B6 4770 D156      0E5EA       19895+        BNE   ERPNORM1           NO                            @DM11465 10950034
00E5BA 5820 6010            10270 19896+        L     R2,ERQCSW1 .       GET ADDRESS OF SD RECORD            EM 11000034
00E5BE B132 0000            00000 19897+        LRA   R3,D0(R2) .        GET NUMBER OF PAGE FRAME            EM 11050034
00E5C2 8830 000B            0000B 19898+        SRL   R3,D11 .           CONT.FIXED PAGE                     EM 11100034
00E5C6 58E0 0778            00778 19899+        L     RE,APMGR .         SET BASE ADDR.FOR PAGE MANAGER      EM 11150034
                            082E6 19900+        USING PMGRADR,RE                                             11200034
00E5CA 45C0 E824            08B0A 19901+        BAL   RC,TFREE .         TFREE THE TFIXED RECORD             EM 11250034
00E5CE 1B33                       19902+        SR    R3,R3 .            GET ADDR.OF LAST BYTE OF RECORD     EM 11300034
00E5D0 4330 601C            1027C 19903+        IC    R3,ERQSEK1         AND CAL.NUMBR OF PAGE FRAME   @DM11465 11350034
00E5D4 B132 3003            00003 19904+        LRA   R3,D3(R2,R3) .                                         EM 11400034
00E5D8 8830 000B            0000B 19905+        SRL   R3,D11 .           CONT.LAST BYTE OF RECORD            EM 11450034
00E5DC 45C0 E824            08B0A 19906+        BAL   RC,TFREE .         TFREE THE TFIXED PAGE               EM 11500034
                                  19907+        DROP  RE                 RELEASE PAGE MANAGER BASE     @D34RDFG 11550034
00E5E0 48C0 08F0            008F0 19908+        LH    RC,CNTCOM .        DECREASE TFIX COUNTER         @DM03549 11600034
00E5E4 06C0                       19909+        BCTR  RC,0 .             BY ONE                        @DM03549 11650034
00E5E6 40C0 08F0            008F0 19910+        STH   RC,CNTCOM .                                      @DM03549 11700034
00E5EA 58A0 601C            1027C 19911+ERPNORM1 L     RA,ERQSEK1         POINT TO PIB OF REQUESTOR     @DM11465 11750034
00E5EE 9601 A000      00000       19912+        OI    PIBFLG,IOCMPL      POST COMPLETE FROM SVC44      @DM11465 11800034
00E5F2 BFCF 0754            00754 19913+        ICM   RC,M15,APOWTB      ADDRESS POWER TABLE           @D30EUJH 11900034
00E5F6 4780 D212      0E6A6       19914+        BZ    ERPNORM4           BRANCH IF POWER NOT ACTIVE    @DY15773 11950034
                            00000 19915+        USING PADS,RC            ADDRESSABILITY POWER TABLE    @D30EUJH 12000034
00E5FA BDA7 C16D            0016D 19916+        CLM   RA,7,CAPB+1        IS POWER PARTITION POSTED     @D30EUJH 12050034
00E5FE 4770 D212      0E6A6       19917+        BNE   ERPNORM4           BRANCH IF NOT                 @DY15773 12100034
00E602 9680 C152      00152       19918+        OI    PAEB+2,TRABIT      TURN ON POWER/VS MASTER ECB   @D30EUJH 12150034
                                  19919+        DROP  RC                 DROP RC                       @D30EUJH 12200034
00E606 47F0 D212      0E6A6       19920+        B     ERPNORM4           SKIP POWER EXIT CHECK         @DY15773 12250034
                            0E60A 19921+ERPNORM  EQU   * .                                                    12350034
00E60A 9108 0044      00044       19922+ERPNORMB TM   DEVSTA,CHANEND     DO WE HAVE CHANNEL END        @DY14450 12396034
00E60E 4780 D182      0E616       19923+        BZ    ERPNORMC           NO, LEAVE STATUS AS IT IS     @DY14450 12416034
00E612 9604 0044      00044       19924+        OI    DEVSTA,DEVEND      FORCE DEQUEUEING AFTER ERP    @DY14125 12436034
00E616 1BAA                       19925+ERPNORMC SR   RA,RA              CLEAR WORK REGISTER           @DY14450 12456034
00E618 43A0 6010            10270 19926+        IC    RA,ERQCSW1         GET PARTITION ID              @DA03968 12500034
00E61C 12AA                       19927+        LTR   RA,RA              KEY AVAILABLE                 @DM11803 12550034
00E61E 4770 D1A0      0E634       19928+        BNZ   ERPNORMA           YES, CONTINUE                 @DM11803 12600034
00E622 41A0 0A3A            00A3A 19929+        LA    RA,ERR1A           GET PTR TO CANCEL             @DA01701 12650034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E626 19FA                      19930+         CR    RF,RA              GOING CANCEL                  @DA01701 12700034
00E628 4770 D206      0E69A      19931+         BNE   ERPNORM2           NO,LEAVE EXIT PTR             @DA08647 12750034
00E62C 48F0 600A            1026A 19932+         LH    RF,YIGNORE         POINT TO IGNORE EXIT          @DM11803 12800034
00E630 47F0 D206      0E69A      19933+         B     ERPNORM2           SKIP PARTITION TEST           @DM11803 12850034
                            0E634 19934+ERPNORMA EQU   *                                              @DM11803 12900034
00E634 4AA0 06CC            006CC 19935+         AH    RA,YPIB2TAB        GET PIB EXTENSION ADDRESS     @DA03968 13000034
00E638 BFA3 A000            00000 19936+         ICM   RA,M3,PIBCOMRA     GET PART. COMMUNICATION AREA  @DA03968 13050034
00E63C 40A0 0016            00016 19937+         STH   RA,CRADDR+2        STORE IN LOW CORE             @DA07881 13100034
                                  19938+         DROP  RA                 DROP ADDRESSABILITY           @DA03968 13150034
                            00000 19939+         USING COMREG,RA          SET ADDRESSABILITY            @DA03968 13200034
00E640 9120 A0A4      000A4      19940+         TM    POWFLG1,POWPART    IS IT POWER/VS PARTITION      @DA03968 13250034
00E644 47E0 D206      0E69A      19941+         BNO   ERPNORM2           NO, SKIP POWER EXIT CHECK     @DA03968 13300034
                                  19942+         DROP  RA                 DROP ADDRESSABILITY           @DA03968 13350034
                            00000 19943+         USING PIBADR,RA          RESET ADDRESSABILITY          @DA03968 13400034

00E648 5810 6020            10280 19945+         L     R1,ERQCCB1         GET CCB ADDRESS               @DA03968 13500034
                            00000 19946+         USING CCBADR,R1                                        @D34RDFG 13550034
00E64C 9110 1002      00002      19947+         TM    CCBCOM1,ACCUNRIO   ACCEPT UNREC. I/O ERROR      @DA03968 13600034
00E650 4710 D206      0E69A      19948+         BO    ERPNORM2           YES, SKIP POWER EXIT CHECK    @DA03968 13650034
00E654 49F0 600A            1026A 19949+         CH    RF,YIGNORE         IGNORE EXIT                   @DA03968 13700034
00E658 4770 D1D0      0E664      19950+         BNE   POWNOIGN           NO, CHECK FOR RETRY           @DA03968 13750034
00E65C 94DF 1002      00002      19951+         NI    CCBCOM1,XFF-DISERR YES, RESET UNREC. I/O ERROR   @DA03968 13800034
00E660 47F0 D206      0E69A      19952+         B     ERPNORM2           CONTINUE                      @DA03968 13850034

                            0E664 19954+POWNOIGN EQU   *                                              @DA03968 13950034
00E664 49F0 6008            10268 19955+         CH    RF,YRETRY          RETRY EXIT                    @DA03968 14000034
00E668 4780 D206      0E69A      19956+         BE    ERPNORM2           YES, CONTINUE                 @DA03968 14050034
00E66C 95FE 0045      00045      19957+         CLI   CHNSTA,X'FE'       NOT OPERATIONAL               @DY13217 14100034
00E670 4780 D1E8      0E67C      19958+         BE    POWNTOP            YES                           @DA07881 14150034
00E674 9139 0045      00045      19959+         TM    CHNSTA,CHANER      ANY CHANNEL ERRORS?           @DA07881 14200034
00E678 4770 D206      0E69A      19960+         BNZ   ERPNORM2           YES, CONTINUE                 @DA07310 14250034
00E67C 960C 0044      00044      19961+POWNTOP  OI    DEVSTA,CHANEND+DEVEND FORCE DEQUEING             @DA07881 14300034
00E680 9620 1002      00002      19962+         OI    CCBCOM1,DISERR     SET UNRECOVERABLE I/O ERROR   @DA03968 14350034
00E684 4570 0B20            00B20 19963+         BAL   R7,CQDSP           GET I/O REGISTERS             @DY15084 14400034
00E688 1211                       19964+         LTR   R1,R1              CHANQ ENTRY AVAILABLE         @DY15084 14407034
00E68A 4780 D202      0E696      19965+         BZ    ERPPOW05           NO, CONTINUE                  @DY15084 14414034
                            00000 19966+         USING CHQADR,R4          ADDRESSABILITY                @DY15084 14417034
00E68E 9500 4004      00004      19967+         CLI   REQID,ZERO         LTA REQUEST                   @DY15084 14421034
00E692 4780 D206      0E69A      19968+         BE    ERPNORM2           YES, LET ERRGO DO THE WORK    @DY15084 14428034
00E696 48F0 600A            1026A 19969+ERPPOW05 LH    RF,YIGNORE         TAKE IGNORE EXIT              @DY15084 14435034
                                  19970+         DROP  R1                 RELEASE CCB POINTER           @D34RDFG 14450034


                            0E69A 19972+ERPNORM2 EQU   *                                              @DA03968 14600034
00E69A 95E3 601B      1027B      19973+         CLI   ERQMSG1,RMSDERR2   WAS IT ASYNCHRONOUS REQUEST   @DY15773 14600434
00E69E 4780 D212      0E6A6      19974+         BE    ERPNORM4           YES, DON'T RESET PUBCSFLGS     @DY15773 14600734
00E6A2 946F 3006      00006      19975+         NI    PUBCSFLG,XFF-DEVBSY-QEDERR RESET FLAGS           @DY15773 14601034
                            0E6A6 19976+ERPNORM4 EQU   *                                              @DY15773 14601334
00E6A6 9140 073A      0073A      19977+         TM    SYSFLAG3,WAITRAS   IS RAS IN SPECIAL WAIT        @DA08974 14605034
00E6AA 4780 D22C      0E6C0      19978+         BZ    ERPNORM3           NO                            @DA08974 14610034
00E6AE 17AA                      19979+         XR    RA,RA              YES, CLEAR REG                @DA08974 14615034
00E6B0 43A0 079B            0079B 19980+         IC    RA,RASPTR          INDEX FOR RAS TASK            @DA08974 14620034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E6B4 5AA0 0790            00790 19981+         A     RA,ASYSBLK0        POINT TO RASBLOCK            @DA08974 14625034
00E6B8 48AA 0000            00000 19982+         LH    RA,SYSPIBFL-SYSBLKS(RA) POINT TO PIBFLG         @DA08974 14630034
00E6BC 9601 A000      00000       19983+         OI    0(RA),IOCMPL       READY RAS TASK               @DA08974 14635034
                            0E6C0 19984+ERPNORM3 EQU   *                                               @DA08974 14640034
00E6C0 D2DB 6010 603C 10270 1029C 19985+         MVC   ERQ1+(440-440)(L220),ERQ1+(484-440)          .       ERQ 15100034
00E6C6 D2AF 60EC 6118 1034C 10378 19986+         MVC   ERQ1+(440-220)(220-44),ERQ1+(484-220)        .    503 15350034
00E6CC 94FE 61A6      10406       19987+         NI    ERQFLG,XFF-OCCUP . MAKE LAST ENTRY AVAILABLE AGAIN   435 15450034
00E6D0 48A0 06AA            006AA 19988+AREXIT   LH    RA,YPIBTAB .       POINT RA TO PIB TABLE        @DM03585 15500034
00E6D4 4AA0 0752            00752 19989+         AH    RA,TIK  .          SET UP PIB POINTER             AP 15550034
                            00000 19990+         USING SYSS00,R0,RB       RESTORE SUPERVISOR BASE       118 15600034
00E6D8 58B0 0844            00844 19991+         L     RB,HEX1000         RESTORE SUPERVISOR BASE        EM 15650034
00E6DC 58D0 0890            00890 19992+         L     RD,ERPBASE         RESTORE SGERP BASE           @D34RDFG 15700034
00E6E0 9101 601A      1027A       19993+         TM    ERQFLG1,OCCUP .    FIRST ENTRY ACTIVE AGAIN       463 15750034
                                  19994+         DROP  R6                 DROP TEMPORARY BASE          @DM01435 15800034
00E6E4 47E0 D25C      0E6F0       19995+         BNO   PTFREE .           YES,DEACTIVATE ERP             EM 15850034
00E6E8 9680 0739      00739       19996+         OI    SYSFLAG2,INITERP . SET INITIAL SELECTION SWITCH  IDRA 15900034
00E6EC 9285 B5D9      015D9       19997+         MVI   ERPFLG,PTABND .    FORCE ERP PTABOUND TO ACTIVATE IDRA 15950034
                            0E6F0 19998+PTFREE   EQU   * .                FREE THE PHYS. TRANSIENT AREA  IDRA 16000034
00E6F0 9200 073D      0073D       19999+         MVI   SELECT,ZERO .      DEACTIVATE ERP                 IDRA 16050034
00E6F4 1826                       20000+         LR    R2,R6              SAVE ERBLOC POINTER          @D34MDWK 16070034
00E6F6 5860 086C            0086C 20001+         L     R6,DISPAD .        RESTORE DISPATCHER ADDRESS   @DM05356 16100034
00E6FA 9283 096B      0096B       20002+         MVI   TRTPTA,READY       INDICATE PTA FREE            @D34MDEM 16400034
00E6FE 5890 070C            0070C 20003+CRTIGN   L     R9,AINTER          SET BASE FOR I/O INTERRUPT     AS 16408034
                            02EDA 20004+         USING INTRTN,R9                                       @D34MDEM 16416034
                            00000 20005+         USING PUBADR,R3          PUB POINTER LOADED BY SUPRET @D34MDEM 16424034
                            10260 20006+         USING ERBLOC,R2          ADDRESS ERBLOC               @DY13111 16424534
00E702 49F0 200A            1026A 20007+         CH    RF,YIGNORE         IS IGNORE SPECIFIED          @DY13111 16425034
00E706 077F                       20008+         BNER  RF                 NO,EXIT TO CANCEL OR RETRY   @DY13111 16425534
00E708 957D 3004      00004       20009+         CLI   PUBDEVTY,T3895     DEVICE TYPE 3895             @DY14844 16426034
00E70C 4780 D282      0E716       20010+         BE    OPINTVRQ           YES , TEST OPER.INTV.REQ.    @DY14844 16428034
00E710 9545 3004      00004       20011+         CLI   PUBDEVTY,T3800     DEVICE TYPE 3800             @DY13111 16430034
00E714 077F                       20012+         BNER  RF                 NO                           @DY13111 16432034
00E716 9108 3006      00006       20013+OPINTVRQ TM    PUBCSFLG,OPINTV    OPERATOR INTERV.REQUIRED     @DY14844 16434034
00E71A 07EF                       20014+         BNOR  RF                 NO,EXIT TO IGNORE,CANC.RETRY @D34MDEM 16440034
00E71C 9620 9A52      0392C       20015+         OI    INTSNSF,INTIGN     INDICATE INTERV.REQUIRED IS  @D34MDEM 16464034
                                  20016+*                                 TO BE LEFT INSPITE OF DEQ.   @D34MDEM 16472034
                                  20017+         DROP  R2,R3,R9                                       @D34MDWK 16480034
00E720 07FF                       20018+         BR    RF                 EXIT TO IGNORE,RETRY OR CANC.@DM01647 16500034



                                  20020+         DROP  RD                 RELEASE BASEREG.             @D34YDWK 26050034
                                  20021+*                                                             @D348DEM 00249034
                                  20022+*        SUPERVISOR - SGAP - 5745-SC-SUP - REL. 34.0          @D348DEM 00267034
                                  20023+*                                                             @D348DEM 00276034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E722 07FC                      20025+SGAP     BR    RC              BRANCH TO SVC ROUTINE         @D34RDFG 00737034
                         0E722 20026+          USING SGAP,RD         COMMON BASE WITHIN SGAP       @D34RDFG 00746034
                         00000 20027+          USING PIBADR,RA                                     @D34RDJO 00755034
                         00000 20028+          USING SVEARA,R8                                     @DM14636 00764034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 20030+*********************************************************************  00800034
                                 20031+*                                                                   *  00809034
                                 20032+* SVC06 OR CANCEL MACRO ROUTINE                                     *  00818034
                                 20033+*                                                                   *  00827034
                                 20034+*********************************************************************  00836034



                                 20036+*********************************************************************  00863034
                                 20037+* SVC06 AND READY CANCELCODES ROUTINE:                             *  00872034
                                 20038+*                   PUT CANCELCODE IN PIB (IF MAINTASK CANCELED OR      00881034
                                 20039+*                   SUBTASK CANCELED,CANCELCODE TO ALL PIBS BELONGING   00900034
                                 20040+*                   TO PARTITION. ). ACTIVATE TASK(S) UNLESS TASK IS    00909034
                                 20041+*                   WAITING FOR I/O.  IF CANCEL WAS ALREADY IN          00918034
                                 20042+*                   PROGRESS FOR A TASK, CANCELCODE IS NOT CHANGED AND  00927034
                                 20043+*                   TASK NOT ACTIVATED.                                 00936034
                                 20044+*                   CANCELCODES :                                       00945034
                                 20045+* SUBTASK ISSUED CANCEL     : CANCELCODE X'23'                        00954034
                                 20046+* SUBTASK ISSUED CANCEL ALL : CANCELCODE X'1C' TO ALL TASKS,HOWEVER THE 00963034
                                 20047+*                            TASK ISSUING CANCEL ALL GETS CC=X'23'.   00972034
                                 20048+* MAINTASK ISSUED CANCEL WITH SUBS ATTACHED: CANCELCODE X'17' TO MAIN  00981034
                                 20049+*                                           CANCELCODE X'1D' SUBTASKS 01000034
                                 20050+* MAINTASK ISSUED CANCEL WITHOUT SUBS ATTACHED: CANCELCODE X'23'       01008034
                                 20051+*                                                                     01016034
                                 20052+* EXIT IS VIA R6 TO TASK SELECTION                                     01024034
                                 20053+*  REGISTER USAGE :                                                   01032034
                                 20054+*  R0 TO INDICATE SIMPLE CANCEL OR CANCEL ALL                         01050034
                                 20055+*  R3 IS BRANCH REGISTER OR BAL REGISTER                              01058034
                                 20056+*  R4 SETUP IN MAINTASK/SUBTASK SUBROUTINE TO CONTAIN PIBPOINTER      01066034
                                 20057+*  R5 USED IN MAINTASK/SUBTASK SUBROUTINE                            01074034
                                 20058+*  R7 BAL REGISTER AND EXIT REGISTER OUT OF SUBTASK SUBROUTINE       01082034
                                 20059+*  R9 BAL REGISTER                                                   01100034
                                 20060+*  RA PIBPOINTER WHEN ENTERING ERRSET ROUTINE                        01108034
                                 20061+*********************************************************************  01116034
                          0E724  20062+SVC06    EQU   * .                                                    01132034
00E724 94FD 0739       00739     20063+         NI    SYSFLAG2,XFF-TPBIT OPEN REACTIVATION          @D31AUHL 01158034
00E728 9604 073B       0073B     20064+         OI    SYSFLAG4,KLLRSTBT  REQUESTKILL-RESET          @D31AUHL 01166034
00E72C 9550 0753       00753     20065+         CLI   TIK+D1,HPIKMT  .   IS IT MAINTASK               @DM01248 01260034
00E730 47D0 D03A       0E75C     20066+         BNH   INITCNCL .         YES,GOTO NORMAL CANCEL ROUT. @DM01248 01268034
00E734 9104 A00F       0000F     20067+         TM    PIBFLG2,CNCLD .    CANCEL IN PROGRESS           @DM01248 01276034
00E738 4710 D022       0E744     20068+         BO    SUBSVC06 .         YES,DONT CHANGE CANC.CODE    @DM01248 01284034
00E73C 9223 A001       00001     20069+         MVI   PIBCNCL,CANCX23 .  CODE FOR SIMPLE CANCEL       @DM01248 01300034
00E740 960C A00F       0000F     20070+         OI    PIBFLG2,CNCLD+FETCHEOJ SET CANCEL IN PROGRESS  @DM01248 01304034
                                 20071+* IT IS SUBTASK ISSUING SIMPLE CANCEL OR CANCEL ALL,IN BOTH CASES     01320034
                                 20072+* THE SUBTASK ISSUING THE CANCEL GETS CANCELCODE X'23'                01324034
00E744 1200                      20073+SUBSVC06 LTR   R0,R0 .           IS IT CANCEL ALL?            @DM01028 01340034
00E746 4780 D03A       0E75C     20074+         BZ    INITCNCL .         SIMPLE CANCEL, CANCEL TASK   @DM01248 01344034
00E74A 45F0 0AD4              00AD4 20075+         BAL   RF,ERRSET .        INITIALIZE FOR CANCELATION         FR 01353034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  20077+*********************************************************************  01380034
                                  20078+* READY CANCELCODES ROUTINE                                          01386034
                                  20079+*********************************************************************  01400034
                                  20080+* THE CORRECT CANCELCODES ARE STORED IN THE PIBS                    *  01409034
                                  20081+* THE SUBTASKS ARE MADE READY TO RUN,UNLESS THEY ARE WAITING FOR I/O *  01418034
                                  20082+* IF WAITING FOR I/O A SWITCH IS SET, SO THAT THE ERRSET ROUTINE DOES*  01427034
                                  20083+* NOT FREE THE LTA IF IT WAS OCCUPIED.                              *  01436034
                                  20084+*********************************************************************  01445034



                                  20086+* IT ENTERS HERE IF SUBTASK ISSUED CANCEL ALL                        01463034
                                  20087+* ALL TASKS GET CANCELCODE X'1C' EXCEPT TASK ISSUING THE CANCEL ALL.  01472034
00E74E 921C B872      01872       20088+RDYCALLS MVI   ERRSET1,CANCX1C .  CANCELCODE X'1C',CANCEL ALL        01490034
                                  20089+*                               THIS CODE TO ALL TASKS UNLESS CANCEL  01499034
                                  20090+*                               IS ALREADY IN PROGRESS (AS IT IS FOR  01508034
                                  20091+*                               SUBTASK ISSUING CANCEL ALL)           01517034
00E752 1876                       20092+         LR    R7,R6 .           EXIT ADRESS FOR RDYCNL       @DM01248 01526034
00E754 4590 D578           0EC9A  20093+         BAL   R9,MAINTASK .     R4 POINTS TO MAIN TASKS PIB        FR 01534034
00E758 47F0 D076      0E798       20094+         B     RDYCNL3 .         INSERT CANCELCODES                 FR 01550034



00E75C 9608 A00F      0000F       20096+INITCNCL OI    PIBFLG2,FETCHEOJ . INIT EOJ/CANCEL PROC         @DM01248 01566034
00E760 47F0 0E18      00E18       20097+         B     CNCLEXIT .         GOTO CANCEL ROUTINE          @DM01248 01574034
                                  20098+* IT IS MAINTASK WITHOUT SUBS ISSUING CANCEL                        01582034

                                  20100+* IT ENTERS HERE IF MAINTASK CANCELED, SUBTASKS CANCELCODE X'1D'     01608034
                                  20101+* MAINTASK CANCELCODE :IF SUBS ATTACHED X'17', IF NOT ATTACHED X'23' 01616034
                                  20102+*           IF DUMP ISSUED IN MAINTASK WITH SUBS ATTACHED: X'18'     01624034
00E764 9218 B872      01872       20103+CNCEL0   MVI   ERRSET1,CANCX18 .  MAINTASK DUMP W.SUBS ATTCHED @DM01248 01632034
00E768 9550 0753      00753       20104+RDYCNLM  CLI   TIK+D1,HPIKMT  .   IS IT A MAIN TASK            @DM01248 01650034
00E76C 0724                       20105+         BCR   H,R4 .            RETURN TO SVC02              @DM01248 01658034
00E76E 9102 A00F      0000F       20106+RDYCNLS  TM    PIBFLG2,SUBSAT .  ARE SUBS ATTACHED TO MAINTASK?     FR 01666034
00E772 0784                       20107+         BCR   Z,R4 .            NO, EXIT VIA R4                  D51 01674034
00E774 1876                       20108+         LR    R7,R6 .           SETUP EXIT ADDRESS           @DM01248 01682034
00E776 9282 A000      00000       20109+         MVI   PIBFLG,IOBND .    SET MAIN TO IO BOUND         @DM01248 01700034
00E77A 9104 A00F      0000F       20110+         TM    PIBFLG2,CNCLD .   CANCEL IN PROGRESS                FR 01708034
00E77E 4710 D066      0E788       20111+         BO    RDYCNL0 .         DO NOT CHANGE CANCEL CODES         FR 01716034
00E782 D200 A001 B872 00001 01872 20112+         MVC   PIBCNCL(L1),ERRSET1 PUT CANCEL CODE IN PIB         FR 01724034
00E788 45F0 0AD4           00AD4  20113+RDYCNL0  BAL   RF,ERRSET .       INITIALIZE FOR CANCELATION         FR 01732034



                                  20115+* GET CANCELCODES IN PIBS AND READY TASKS                           01758034
                                  20116+* IT WAS CANCEL ALL FROM SUBTASK OR TERMINATING MAINTASK WITH SUBS ATT. 01766034



                                  20118+         DROP  RA .              DROP RA                          435 01782034
                            00000 20119+         USING PIBADR,R4 .       USE R4 AS PIB POINTER            435 01800034
00E78C 4590 D578           0EC9A  20120+RDYCNL   BAL   R9,MAINTASK .     R4 POINTS TO MAINTASK PIB            01808034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E790 921D B872      01872       20122+RDYCNL5  MVI   ERRSET1,CANCX1D .  CANCELCODE X'1D' TO SUBS, MAINTASK    01824034
                                   20123+*                                CANCELED WITH SUBS ATTACHED           01832034
00E794 4590 D598            0ECBA  20124+RDYCNL2  BAL   R9,SUBTASK .       SELECT NEXT HIGHER PRIORITY TASK      01850034
00E798 910C 400F      0000F       20125+RDYCNL3  TM    PIBFLG2,CNCLD+FETCHEOJ CANCEL IN PROGRESS?      @DM01248 01858034
00E79C 4770 D072      0E794       20126+         BNZ   RDYCNL2 .           YES,SELECT NEXT TASK          @DM01248 01866034
00E7A0 960C 400F      0000F       20127+         OI    PIBFLG2,CNCLD+FETCHEOJ SET CANCEL IN PROGRESS   @DM01028 01874034
00E7A4 D200 4001 B872 00001 01872 20128+         MVC   PIBCNCL(L1),ERRSET1 PUT CANCELCODE IN PIB              FR 01882034
00E7AA 9587 4000      00000       20129+         CLI   PIBFLG,BOUND .     ALLOWED TO READY                      FR 01900034
00E7AE 4780 D072      0E794       20130+         BE    RDYCNL2 .          NO,DO NOT READY TASK                  FR 01908034
00E7B2 9283 4000      00000       20131+         MVI   PIBFLG,READY .     MAKE TASK READY TO RUN                   01916034
00E7B6 47F0 D072      0E794       20132+         B     RDYCNL2 .          GO FOR NEXT TASK,RDYCNL2              FR 01924034

                            00000 20134+         USING PIBADR,RA .        RESTORE PIB POINTER                  435 01950034
                            00000 20135+         USING CHQADR,R4 .        RESTORE CHANNEL QUEUE POINTER        435 01958034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 20137+*********************************************************************** 02000034
                                 20138+* CNCEL OR ABNORMAL TERMINATION ROUTINE                               * 02008034
                                 20139+*********************************************************************** 02016034


                                 20141+*  CNCEL ROUTINE IS ENTERED IF TASK WANTS TO CANCEL.           @D33DDJO 02032034
                                 20142+*  IF CNCEL IS REENTERED WHILE THE USER'S AB ROUTINE IS ALREADY@D33DDJO 02058034
                                 20143+*  IN PROGRESS (ABINPR=1) THE TASK'S ENTRY IN ABTAB IS CLEARED @D33DDJO 02066034
                                 20144+*  AND THE ORIGINAL CANCEL CODE IS RESTORED.                   @D33DDJO 02074034
                                 20145+*  THE USER'S AB EXIT ROUTINE IS NOT ENTERED A SECOND TIME.    @D33DDJO 02082034
                                 20146+*  IF TASK TO BE CANCELED IS A MAIN TASK WITH SUBTASKS ATTACHED@D33DDJO 02107034
                                 20147+*  THE CANCEL CODE IS SET TO ALL TASKS OF THE PARTITION.       @D33DDJO 02114034
                                 20148+*  THE MAIN TASK IS SET IOBOUND.                               @D33DDJO 02130034
                                 20149+*  EXIT IS TO TASK SELECTION.( MAIN TASK IS CANCELED LAST.)    @D33DDJO 02137034
                                 20150+*                                                             @D33DDJO 02144034
                                 20151+*  IF TASK TO BE CANCELED IS A MAIN TASK WITHOUT SUBTASKS      @D33DDJO 02160034
                                 20152+*  ATTACHED OR A SUBTASK THEN:                                 @D33DDJO 02168034
                                 20153+*       IF NO AB ROUTINE IS PRESENT PROCESSING CONTINUES       @D33DDJO 02176034
                                 20154+*       WITH CANCEL ROUTINE ($$BEOJ3 OR $$BDUMP)  OR          @D33DDJO 02184034

                                 20156+*       IF AB ROUTINE IS PRESENT BUT NOT YET ACTIVE,           @D33DDJO 02208034
                                 20157+*       THE SAVE AREA CONTENT IS CHANGED TO POINT TO THE       @D33DDJO 02216034
                                 20158+*       USER'S AB ROUTINE. EXIT IS TO TASK SELECTION.          @D33DDJO 02224034
                                 20159+*       THE ABINPR BIT IN PIBFLG2 IS SET TO INDICATE           @D33DDJO 02232034
                                 20160+*       THAT THE USER AB ROUTINE IS IN PROGRESS.               @D33DDJO 02250034
                                 20161+*                                                              @D33DDJO 02258034


                          0E7BA 20163+CNCEL    EQU   * .                                            @D33DDJO 02474034
00E7BA 9101 A00F      0000F      20164+         TM    PIBFLG2,ABINPR .   RETURN FROM AB ROUTINE?     @D33DDJO 02500034
00E7BE 4780 D0BE      0E7E0      20165+         BZ    NOABCNCL .         NO,DONT CHANGE SAVEAREA     @DM01248 02508034
00E7C2 94FE A00F      0000F      20166+         NI    PIBFLG2,XFF-ABINPR TURN OFF AB IN PROGRESS BIT @DM01248 02516034
00E7C6 4550 D932           0F054 20167+         BAL   R5,GETAB .         GET AB ROUTINE ADDRESS      @D33DDJO 02524034
00E7CA D707 7000 7000 00000 00000 20168+         XC    D0(L8,R7),D0(R7)   CLEAR AB ENTRY              @D33DDJO 02532034
00E7D0 BE48 A001           00001 20169+         STCM  R4,M8,PIBCNCL .    RESTORE ORIGINAL CANCEL CODE @DM01248 02550034
00E7D4 4590 D158           0E87A 20170+         BAL   R9,GETSAVE .       POINT R8 TO USER SAVE AREA  @DM01248 02558034
00E7D8 4590 D990           0F0B2 20171+         BAL   R9,EXITRTRN .      RESTORE USER REGS AND PSW   @DM01248 02566034
00E7DC 4190 0EF8           00EF8 20172+         LA    R9,CANCEL .        SETUP TERMINATOR ADDRESS              02574034
                           0E7E0 20173+NOABCNCL EQU   *                                            @DM01248 02582034
00E7E0 9217 B872      01872      20174+         MVI   ERRSET1,CANCX17 .  CANC.MAIN WITH SUBS ATTACHED @DM01248 02616034
00E7E4 4540 D046           0E768 20175+         BAL   R4,RDYCNLM .       RET.VIA R4 IF NO SUBS ATTCHD @DM01248 02624034
00E7E8 9104 A00F      0000F      20176+         TM    PIBFLG2,CNCLD .    CANCEL IN PROGRESS                FR 02632034
00E7EC 4710 D0DE      0E800      20177+         BO    CNCEL2 .           YES,NO SPECIAL ACTION       @DM01248 02650034
00E7F0 9550 0753      00753      20178+         CLI   TIK+D1,HPIKMT  .   IS IT A MAINTASK           @DM01248 02658034
00E7F4 4720 D348      0EA6A      20179+         BH    SVC39 .            NO, DETACH TO BE CALLED     @DM01248 02666034
00E7F8 9223 A001      00001      20180+         MVI   PIBCNCL,CANCX23 .  SIMPLE CANCEL MAIN          @DM01248 02674034
00E7FC 960C A00F      0000F      20181+         OI    PIBFLG2,CNCLD+FETCHEOJ SET CANCEL IN PROGRESS  @DM01248 02682034
                          0E800 20182+CNCEL2   EQU   *                                            @DM01248 02700034
00E800 9523 A001      00001      20183+         CLI   PIBCNCL,CANCX23 .  IS IT SIMPLE CANCEL?        @DM01248 02758034
00E804 0789                      20184+         BCR   E,R9 .             YES                                 02766034
00E806 9510 A001      00001      20185+         CLI   PIBCNCL,NORMEOJ .  IS IT EOJ?                          02774034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E80A 0789                      20186+         BCR   E,R9 .              YES                                    02782034
00E80C 9500 0753      00753      20187+         CLI   TIK+D1,ZERO  .      IS IT ATTENTION                 FR     02800034
00E810 0789                      20188+         BCR   E,R9 .              YES                             FR     02808034
00E812 9517 A001      00001      20189+         CLI   PIBCNCL,CANCX17 .   SIMPLE CANCEL FROM MAINTASK     D51    02824034
00E816 0789                      20190+         BCR   E,R9 .              YES                                    02832034
00E818 9518 A001      00001      20191+         CLI   PIBCNCL,CANCX18 .   HAS IT BEEN DUMP FROM MAIN            02850034
00E81C 0789                      20192+         BCR   E,R9 .              YES                                    02858034
00E81E 184A                      20193+         LR    R4,RA .             COPY PIB POINTER                D51    02866034
00E820 4B40 0BDE            00BDE 20194+         SH    R4,PIBDIFF .        POINT TO PIB EXTENSION          D51    02874034
00E824 BF2F 4008            00008 20195+         ICM   R2,M15,D8(R4) .     IS THERE AN ECB?                D51    02882034
00E828 4780 D10E      0E830      20196+         BZ    CNCEL4 .            NO                              D51    02900034
00E82C 9640 2002      00002      20197+         OI    D2(R2),ABNECB .     POST ATTACHMENT ECB ABNORMALLY  D51    02908034
00E830 4550 D932            0F054 20198+CNCEL4   BAL   R5,GETAB .         GET AB ROUTINE AND SAVE ADDRESS D98    02924034
00E834 1233                      20199+         LTR   R3,R3 .             IS THERE AB ROUTINE?                   02932034
00E836 0789                      20200+         BCR   Z,R9 .              NO, CANCEL TASK VIA CANCEL EXIT        02950034
00E838 45F0 0AD4            00AD4 20201+         BAL   RF,ERRSET .         FREE LT-AREA WHEN OCCUPIED      FR     02958034
00E83C D200 7004 A001 00004 00001 20202+         MVC   D4(L1,R7),PIBCNCL .KEEP CANCELCODE                RR01   02966034
00E842 5880 A004            00004 20203+         L     R8,PIBSAVE .        R8 POINTS TO USER SAVE AREA     FR     02974034
00E846 4550 D946            0F068 20204+         BAL   R5,EXITSAV .        MOVE PSW AND REGS TO AB-SAVE AREA      02982034
                                  20205+*                                  PSW IS MAPPED TO BC MODE               03000034
                                  20206+*                                  INSTR ADDR IN USER SAVE AREA PSW       03008034
                                  20207+*                                  IS SET UP TO TAKE AB EXIT              03016034
                                  20208+* SET UP R0 AND R1 IN USER SAVE AREA                                       03024034
00E84A D702 802C 802C 0002C 0002C 20209+         XC    SVER00(L3),SVER00 .CLEAR R0 IN USER SAVE AREA,EXCEPT     03032034
00E850 D200 802F A001 0002F 00001 20210+         MVC   SVER00+3(L1),PIBCNCL LOW ORDER BYTE WHICH CONTAINS CC    03050034
00E856 947F 802F      0002F      20211+         NI    SVER00+3,XFF-LTACNC . R0 CONTAINS ERR.NUMBER  FR         03058034
00E85A 5040 8030            00030 20212+         ST    R4,SVER01 .         USER SAVE R1 CONTAINS ABSAVE POINTER   03066034

                                  20214+* RELAY FACT OF ENTERING AB ROUTINE TO PIBFLG2                            03082034
                                  20215+* DO NOT ENTER CNCEL ROUTINE AGAIN, CLEAR CANCELCODE                      03100034
                                  20216+* CANCELCODE WILL BE RESTORED AFTER RETURN FROM AB ROUTINE(CNCEL1 RTN)     03108034
00E85E 9200 A001      00001      20217+         MVI   PIBCNCL,X'00'       CLEAR CANCEL CODE IN PIB     @DA02653  03116034
00E862 94F7 A00F      0000F      20218+         NI    PIBFLG2,XFF-FETCHEOJ RESET EOJ BIT IN PIB       @DA02653  03124034
00E866 9601 A00F      0000F      20219+         OI    PIBFLG2,ABINPR .    SET AB IN PROGRESS BIT IN PIB          03132034
00E86A 07F6                      20220+         BR    R6                  EXIT TO TASK SELECTION       @D33DDJO  03150034


                                  20222+*************************************************************************  03174034
                                  20223+* GETSAVE SUBROUTINES TO GET POINTER TO TASKS SAVE AREA IN R8            03182034
                                  20224+*************************************************************************  03200034
                                  20225+* SAVE AREA POINTER IS RETURNED IN R8                                    03208034
                                  20226+* IF PIBPOINTER IN R4 ENTRY POINT MUST BE GETSAV1                       03216034
                                  20227+* IF PIBPOINTER IN RA ENTRY POINT MUST BE GETSAVE                      03224034
                                  20228+* RETURN REGISTER IS R9                                                 03232034

00E86C 5884 0004            00004 20230+GETSAV1  L     R8,D4(R4) .         SET UP POINTER TO SAVE AREA            03258034
00E870 D502 4005 0871 00005 00871 20231+         CLC   D5(L3,R4),LTAREA2+1 DOES TASK OCCUPY LTA?                  03266034
00E876 47F0 D160      0E882      20232+         B     SAVCONT .           CONTINUE                               03274034
00E87A 5880 A004            00004 20233+GETSAVE  L     R8,PIBSAVE .        SET UP POINTER TO SAVE AREA            03282034
00E87E 4400 B2D2            012D2 20234+         EX    R0,COMPCLC .        IS THIS TASK OCCUPY THE LTA?           03300034
00E882 0779                      20235+SAVCONT  BCR   NE,R9 .              NO, RETURN                             03308034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E884 4880 06AA            006AA 20236+         LH    R8,YPIBTAB .       POINT TO AR PIB                        03316034
                                  20237+         DROP  RA .               DROP RA                          435 03324034
                            00000 20238+         USING PIBADR,R8 .        BASE FOR PIB  R8                 435 03332034
00E888 5880 8008            00008 20239+         L     R8,ARFLG .         GET CORRECT POINTER TO SAVE AREA 435 03350034
                            00000 20240+         USING PIBADR,RA .        BASE FOR PIB RA                  435 03358034
                            00000 20241+         USING SVEARA,R8 .        BASE FOR SAVE AREA R8            435 03366034
00E88C 07F9                       20242+         BR    R9 .               RETURN                                 03374034



                                  20244+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03408034
                                  20245+*                                                                       * 03416034
                                  20246+* SVC 7: WAIT FOR I/O TO COMPLETE OR A TIMER INTERRUPT TO OCCUR.        * 03424034
                                  20247+*                                                                       * 03432034
                                  20248+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 03450034

                            00000 20250+         USING CCBADR,R1          USE CCB POINTER              @D34RDFG 03466034
00E88E 9204 087F      0087F       20251+SVC07    MVI   RID+D1,REENTRID .  REISSUE SVC AFTER PAGE FAULT @DM01010 03474034
00E892 9180 1002      00002       20252+         TM    CCBCOM1,TRABIT .   I/O ALREADY COMPLETED                 03482034
                            0E896 20253+PCKSVC07 EQU   * .                PROGRAMCHECK MAY OCCUR AT THIS ADDR.  03500034
00E896 0776                       20254+         BCR   NZ,R6 .            YES,EXIT                               03508034
00E898 4130 0008            00008 20255+         LA    R3,D8 .            R3 CONTAINS 8 FOR RE SVC     @DM01378 03516034
00E89C 4140 0082            00082 20256+         LA    R4,IOBND .         SETUP PIBFLAG FOR RESVC      @DM01378 03524034
00E8A0 47F0 0FE6      00FE6       20257+         B     UPADD .            UPDATE INSTR.ADDRESS         @DM01378 03532034
                                  20258+         DROP  R1                 RELEASE CCB POINTER          @D34RDFG 03550034
                                  20259+*********************************************************************** 03558034
                                  20260+*        SVC 22 IS USED FOR 3 DIFFERENT PURPOSES:                       * 03566034
                                  20261+*                                                                       * 03574034
                                  20262+*        1. THE SYSTEM IS SEIZED/RELEIZED BY MODIFYING THE TASK         * 03582034
                                  20263+*           SELECTION MECHANISM.                                        * 03600034
                                  20264+*        2. THE SYSTEM IS ENABLED/DISABLED DEPENDENT UPON THE SETTING   * 03608034
                                  20265+*           OF REGISTER 0.                                              * 03616034
                                  20266+*        3. THE USER KEY IS STORED IN THE OLD PSW IF R0 CONTAINS A      * 03624034
                                  20267+*           NEGATIVE VALUE.                                             * 03632034
                                  20268+*                                                                       * 03650034
                                  20269+*        THE FIRST FUNCTION IS ONLY SUPPORTED IN AN MPS-SYSTEM          * 03658034
                                  20270+*********************************************************************** 03666034

00E8A4 91F0 0021      00021       20272+SVC22    TM    SVOLDP+1,KEY0 .    IS PSW KEY ZERO?                       03682034
00E8A8 4770 09EA      009EA       20273+         BNZ   ERR21 .            NO,ILLEGAL SVC                         03700034
00E8AC 9740 A004      00004       20274+         XI    PIBDATFL,SEIZE .   SWITCH SEIZE FLAG                 FR  03716034
00E8B0 9783 0959      00959       20275+         XI    TRTSEIZE,READY .   FLIP THE SEIZE BYTE IN TRTMSK.    FR  03724034
                            05E18 20276+         USING DISP,R6                                     @DM05356 03732034
00E8B4 9780 608D      05EA5       20277+         XI    SEIZEXIT+D1,16*Z . FLIP B/BNZ                        FR  03750034
                                  20278+         DROP  R6                                          @DM05356 03758034
00E8B8 5880 A004            00004 20279+         L     R8,PIBSAVE .       SET UP SAVE AREA POINTER               03774034
00E8BC 1200                       20280+         LTR   R0,R0 .            PSW KEY TO BE SET?                     03782034
00E8BE 47B0 D1A6      0E8C8       20281+         BNM   SVC22A .           NO,SKIP                                03800034
00E8C2 D300 8009 067F 00009 0067F 20282+         MVZ   SVEPSW+1(L1),PIK+1 SET USER KEY                           03808034
00E8C8 BD01 0840            00840 20283+SVC22A   CLM   R0,M1,ZEROBYTE .   DOES USER WANT TO DISABLE?       D03 03816034
00E8CC 4780 D1B4      0E8D6       20284+         BE    SVC22B .           YES,BRANCH                             03824034
00E8D0 9603 8008      00008       20285+         OI    SVEPSW,ENABLE .    ENABLE                                 03832034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E8D4 07F6                      20286+         BR    R6 .                EXIT                                    03850034
00E8D6 94FC 8008      00008      20287+SVC22B   NI    SVEPSW,DISABLE .    SET SYSTEM MASK TO DISABLE              03858034
00E8DA 07F6                      20288+         BR    R6 .                EXIT                                    03866034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 20291+*************************************************************************  03908034
                                 20292+*                                                                       *  03916034
                                 20293+* WAITM SUBROUTINE                                                     *  03924034
                                 20294+*                                                                       *  03932034
                                 20295+*************************************************************************  03950034



                                 20297+************************************************************************* 03966034
                                 20298+* SVC29  WAITM : SCAN ECB ADDRESS LIST, IF POSTED ECB FOUND             03974034
                                 20299+*                STORE ADDRESS OF POSTED ECB IN USERS R1 AND             03982034
                                 20300+*                RETURN TO USER.  IF POSTED ECB NOT FOUND,               04000034
                                 20301+*                MAKE TASK I/O BOUND AND RETURN TO TASK SELECTION        04008034
                                 20302+*************************************************************************  04016034

00E8DC 9210 087F      0087F      20304+SVC29    MVI   RID+1,RESVCID      IDENT. ROUTINE  TO RE-SVC    @DM11597 04032034
00E8E0 9500 1000      00000      20305+PDECBT   CLI   D0(R1),LISTEND .   END OF LIST?                             04050034
                           0E8E4 20306+PCKSV29A EQU   * .                PROGR.CHECK MAY OCCUR HERE          EM 04058034
00E8E4 4770 D1DA      0E8FC      20307+         BNE   PDECBW .           YES, NO ECB HAS BEEN POSTED              04066034
00E8E8 5831 0000            00000 20308+         L     R3,D0(R1) .        GET ECB ADDRESS                          04074034
00E8EC 9180 3002      00002      20309+         TM    D2(R3),TRABIT .    HAS ECB BEEN POSTED?                     04082034
                           0E8F0 20310+PCKSV29B EQU   * .                PROGR.CHECK MAY OCCUR HERE          EM 04100034
00E8F0 4710 D1E2      0E904      20311+         BO    PDECBP .           YES, NOTIFY USER                         04108034
00E8F4 4111 0004            00004 20312+         LA    R1,D4(R1) .        BUMP TO NEXT LIST ENTRY                  04116034
00E8F8 47F0 D1BE      0E8E0      20313+         B     PDECBT .           INVESTIGATE THIS ENTRY                   04124034

                                 20315+* IF NO ECB WAS POSTED,                                                 04150034
                                 20316+* MAKE USER I/O BOUND AND RETURN TO TASK SELECTION                      04158034
00E8FC 94FE A000      00000      20317+PDECBW   NI    PIBFLG,IOBOND .    MAKE TASK I/O BOUND                      04166034
00E900 47F0 0FD6      00FD6      20318+         B     RESVCNOX .         GO VIA RESVC TO TASK SELECT  @DM01378 04282034
                                 20319+* A POSTED ECB HAS BEEN FOUND. STORE ECB ADDRESS IN USERS R1,           04332034
                                 20320+*  RETURN TO USER VIA SAMETASK                                          04350034
00E904 5880 A004            00004 20321+PDECBP   L     R8,PIBSAVE .       GET SAVE-AREA ADDRESS                    04358034
00E908 5030 8030            00030 20322+         ST    R3,SVER01 .        STORE ECB ADDRES IN USERS R1             04366034
                            05E18 20323+         USING DISP,R6                                     @DM05356 04374034
00E90C 47F0 607A      05E92      20324+         B     SAMETASK .         RETURN TO USER VIA SAMETASK              04382034
                                 20325+         DROP  R6                                          @DM05356 04400034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 20327+*********************************************************************** 04432034
                                 20328+*        ATTACH MACRO ROUTINE                                         * 04450034
                                 20329+*********************************************************************** 04458034

                                 20331+* REGISTERS 0 AND 1 ARE USED TO PASS PARAMETERS.                        04474034
                                 20332+*  R0 CONTAINS ADDRESS OF SUBTASK SAVEAREA                            04482034
                                 20333+*  R1 CONTAINS POINTER TO THE FOLLOWING PARAMETER LIST:               04500034
                                 20334+*     ADDRESS OF SUBTASK ENTRY POINT                                  04508034
                                 20335+*     ADDRESS OF SUBTASK ECB, IF ANY, OTHERWISE ZERO                  04516034
                                 20336+*     ADDRESS OF SUBTASK AB SAVE AREA, IF ANY, OTHERWISE ZERO         04524034

00E910 D501 0752 067E 00752 0067E 20338+SVC38    CLC   TIK,PIK .          DID A MAINTASK ISSUE ATTACH           04550034
00E916 4770 09EA      009EA       20339+         BNE   ERR21 .           IF NOT - ILLEGAL SVC                  04558034
00E91A 1831                       20340+         LR    R3,R1 .           SAVE PARAMETER LIST POINTER           04566034

00E91C 4121 000C           0000C  20342+         LA    R2,D12(R1) .      VALIDATE PARAMETER AREA            FR 04582034
00E920 4580 B2D2           012D2  20343+         BAL   R8,VALID                                            FR 04600034
00E924 1810                       20344+         LR    R1,R0 .           POINT R1 TO FIRST BYTE OF SAVE AREA   04608034
00E926 4121 007F           0007F  20345+         LA    R2,D127(R1) .     POINT R2 TO LAST BYTE OF SAVE AREA    04658034
00E92A 4580 B2D2           012D2  20346+         BAL   R8,VALID .        VALIDATE SUBTASKS SAVE AREA ADDRESS   04674034
00E92E 5813 0000           00000  20347+         L     R1,D0(R3) .       POINT R1 AND R2                       04682034
00E932 1821                       20348+         LR    R2,R1 .           TO SUBTASKS ENTRY POINT               04700034
00E934 4580 B2D2           012D2  20349+         BAL   R8,VALID .        VALIDATE ENTRY POINT ADDRESS          04708034
00E938 BF1F 3004           00004  20350+         ICM   R1,M15,D4(R3) .   POINT R1 TO FIRST BYTE OF ECB         04716034
00E93C 4780 D226      0E948       20351+         BZ    SVC38B .          BR IF ECB PARAMETER NOT PRESENT       04724034
00E940 4121 0003           00003  20352+         LA    R2,D3(R1) .       POINT R2 TO LAST BYTE OF ECB          04732034
00E944 4580 B2D2           012D2  20353+         BAL   R8,VALID .        VALIDATE ECB ADDRESS                  04750034
                           0E948  20354+SVC38B   EQU   *                                                     04758034
00E948 BF1F 3008           00008  20355+         ICM   R1,M15,D8(R3) .   POINT R1 TO FIRST BYTE OF ABSAVE AREA 04774034
00E94C 4780 D236      0E958       20356+         BZ    SVC38C .          BR IF ABSAVE PARAMETER NOT PRESENT    04782034
00E950 4121 0047           00047  20357+         LA    R2,D71(R1) .      POINT R2 TO LAST BYTE OF ABSAVE AREA  04800034
00E954 4580 B2D2           012D2  20358+         BAL   R8,VALID .        VALIDATE AB SAVE AREA ADDRESS         04808034
                           0E958  20359+SVC38C   EQU   *                                                     04816034
                                  20360+* TEST TO SEE IF A PIBTABLE ENTRY IS AVAILABLE TO ATTACH A SUBTASK    04832034
00E958 DD0F B862 B862 01862 01862 20361+         TRT   TIDTRT,TIDTRT .   IS A PIB AVAILABLE FOR THIS S-T       04850034
00E95E 4770 D262      0E984       20362+         BNZ   SVC38A .          IF SO - BRANCH                        04858034

                                  20364+* NO PIB WAS AVAILABLE - RELAY FACT BACK TO MAINTASK                  04874034
00E962 4110 097C           0097C  20365+         LA    R1,SPVECB .       GET ADDRESS OF PIB AVAILABLE ECB      04882034
00E966 9583 094D      0094D       20366+         CLI   TRTG38,READY .    DETACH WORKING                @DM03432 04900034
00E96A 4770 D250      0E972       20367+         BNE   SVC38F .          YES,DO NOT UNPOST ECB         @DM03432 04908034
00E96E 947F 1002      00002       20368+         NI    D2(R1),UNPOST1 .  UNPOST THE PIB AVAILABLE ECB          04916034
00E972 5880 A004           00004  20369+SVC38F   L     R8,PIBSAVE .      GET M-T SAVE AREA ADDRESS     @DM03432 04924034
00E976 5010 8030           00030  20370+         ST    R1,SVER01 .       PUT ADDR OF PIB AVAIL ECB IN M-T'S R1 04932034
00E97A 9680 8030      00030       20371+         OI    SVER01,MAKENEG .  MAKE MAINTASKS R1 NEGATIVE            04950034
00E97E 9267 A000      00000       20372+         MVI   PIBFLG,G38BND .   SET WAITING FOR DETTACH       @DM03432 04958034
00E982 07F6                       20373+         BR    R6 .              GO TO TASK SELECTION                  04966034

                                  20375+* AN AVAILABLE PIB WAS FOUND - VALIDATE THE ADDRESSES OF THE PARAMETERS 04982034
                           0E984  20376+SVC38A   EQU   *                                                     05000034
00E984 1B22                       20377+         SR    R2,R2 .           CLEAR REGISTER                        05008034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00E986 4321 0000            00000 20378+         IC    R2,D0(R1) .        PICK UP FOUND TID                      05016034
00E98A 8920 0004            00004 20379+         SLL   R2,L4 .            CREATE TIK OF SUBTASK                  05024034

                                  20381+* INDICATE IN TIDTRT FIELD THAT THE PIB OF THE SUBTASK BEING ATTACHED   05050034
                                  20382+* IS NOW UNAVAILABLE                                                   05058034
00E98E 9200 1000      00000       20383+         MVI   D0(R1),ZERO .      REMOVE TID FROM TIDTRT FIELD           05066034

                                  20385+* SET UP THE PIB AND PIB EXTENSION OF THE SUBTASK                       05082034
00E992 184A                       20386+         LR    R4,RA .            POINT TO MAINTASK PIB                  05100034
00E994 4850 06AA            006AA 20387+         LH    R5,YPIBTAB .       POINT TO PIB TABLE                     05108034
00E998 1A52                       20388+         AR    R5,R2 .            POINT TO SUBTASK PIB                   05116034
00E99A 5005 0004            00004 20389+         ST    R0,D4(R5) .        PUT S-T SAVE AREA ADDR IN S-T PIB  FR 05124034
00E99E D204 5000 4000 00000 00000 20390+SVC38EX  MVC   D0(L5,R5),D0(R4) . COPY M-T PIB TO S-T PIB            FR 05132034
00E9A4 D203 500C 400C 0000C 0000C 20391+         MVC   D12(L4,R5),D12(R4) .                                 FR 05150034
                                  20392+         DROP  RA                                                     05158034
                            00000 20393+         USING PIBADR,R5                                              05166034
00E9AA 94BF 500C      0000C       20394+         NI    PIBASS,CHAPOFF .   TURN OFF CHANNEL APPENDAGE FLAG     05174034
00E9AE 9480 5004      00004       20395+         NI    PIBDATFL,TRAM .    RESET PMGR FLAGS                FR 05182034
00E9B2 9200 5001      00001       20396+         MVI   PIBCNCL,ZERO .     RESET ANY CANCEL CODE           FR 05200034
00E9B6 94FA 500F      0000F       20397+         NI    PIBFLG2,X'FF'-CNCLD-ABINPR .                       FR 05208034
00E9BA 4B40 0BDE            00BDE 20398+         SH    R4,PIBDIFF .       POINT TO MAINTASK PIB EXT              05216034
00E9BE 4B50 0BDE            00BDE 20399+         SH    R5,PIBDIFF .       POINT TO SUBTASK PIB EXT               05224034
00E9C2 D20F 5000 4000 00000 00000 20400+         MVC   D0(L16,R5),D0(R4) .COPY M-T PIB EXT TO S-T PIB EXT.  FR 05232034
00E9C8 94FE 500F      0000F       20401+         NI    PIBFLG3,XFF-PIBXECB    DON'T COPY XECB TERM BIT @D34XDJO 05258034
00E9CC 5813 0004            00004 20402+         L     R1,D4(R3)                                      @D33DDFR 05274034
00E9D0 1211                       20403+         LTR   R1,R1                                          @D33DDFR 05282034
00E9D2 4780 D2B8      0E9DA       20404+         BZ    NOSTECB                                        @D33DDFR 05300034
00E9D6 943F 1002      00002       20405+         NI    D2(R1),UNPOST2 .   UNPOST THE ECB                 @D33DDFR 05308034
00E9DA 5010 5008            00008 20406+NOSTECB  ST    R1,PIBECB .        PUT ECB ADDR IN S-T PIB EXT  @D33DDFR 05316034
                                  20407+         DROP  R5                                                     05324034
                            00000 20408+         USING PIBADR,RA                                              05332034

                                  20410+* SET UP THE SAVE AREA OF THE SUBTASK                                  05358034
00E9DE 5840 A004            00004 20411+         L     R4,PIBSAVE .       POINT TO M-T SAVE AREA                 05366034
00E9E2 1850                       20412+         LR    R5,R0 .            POINT TO S-T SAVE AREA                 05374034
00E9E4 D26F 5008 4008 00008 00008 20413+         MVC   D8(L112,R5),D8(R4) COPY M-T SAVE AREA TO S-T SAVE AREA 05450034
00E9EA 4225 0078            00078 20414+         STC   R2,D120(R5) .      PUT TIK IN S-T SAVE AREA               05458034
00E9EE 4105 0080            00080 20415+         LA    R0,D128(R5) .      POINT TO BYTE BEYOND S-T SAVE AREA     05466034
00E9F2 5004 002C            0002C 20416+         ST    R0,D44(R4) .       PUT THIS ADDR IN M-T R0                05482034
00E9F6 947F 4030      00030       20417+         NI    D48(R4),MAKEPOS .  ENSURE M-T R1 NOT NEGATIVE             05500034
00E9FA 5045 0030            00030 20418+         ST    R4,D48(R5) .       PUT M-T SAVE AREA ADDR IN S-T R1       05508034
00E9FE D202 500D 3001 0000D 00001 20419+         MVC   D13(L3,R5),D1(R3) .PUT ENTRY POINT IN S-T PSW           05516034

                                  20421+* MOVE TIK OF SUBTASK BEING ATTACHED INTO MVCFLD TO GIVE IT CORRECT     05532034
                                  20422+* PRIORITY DURING TASK SELECTION                                       05550034
00EA04 5810 D682            0EDA4 20423+         L     R1,MVCFLDEA   .    POINT TO LAST BYTE OF MVCFLD @D34UDFR 05558034
00EA08 4100 1001            00001 20424+         LA    R0,D1(,R1)         INCREASE ENDADDR.OF MVCFLD   @D34UDFR 05566034
00EA0C 5000 D682            0EDA4 20425+         ST    R0,MVCFLDEA        RESTORE POINTER              @D34UDFR 05574034
00EA10 1B00                       20426+         SR    R0,R0 .            CLEAR CHARACTER REGISTER               05582034
00EA12 0610                       20427+SVC38D   BCTR  R1,R0 .            DECR MVCFLD POINTER                    05600034
00EA14 4301 0000            00000 20428+         IC    R0,D0(R1) .        PICK UP MVCFLD CHARACTER               05608034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00EA18 4200 1001            00001 20429+         STC   R0,D1(,R1)          MOVE CHAR RIGHT ONE BYTE     @D34UDFR 05616034
00EA1C 4900 067E            0067E 20430+         CH    R0,PIK .            IS IT THE ONE OF THE ATTACHING M-T    05624034
00EA20 4770 D2F0      0EA12       20431+         BNE   SVC38D .            NO - GO BACK UP TO NEXT CHARACTER     05632034
00EA24 4221 0000            00000 20432+         STC   R2,D0(R1) .         YES - INSERT TIK OF ATTACHED S-T      05650034
00EA28 5850 0834            00834 20433+         L     R5,PCBPTR           POINTER TO PART.CTL.BLOCK    @D34UDFR 05658034
                            00000 20434+         USING PCBADR,R5                                    @D34UDFR 05666034
00EA2C 4810 5002            00002 20435+         LH    R1,PCBTNR           UPDATE                       @D34UDFR 05674034
00EA30 4110 1001            00001 20436+         LA    R1,D1(,R1)          NUMBER OF TASKS              @D34UDFR 05682034
00EA34 4010 5002            00002 20437+         STH   R1,PCBTNR           IN PART.CONTR.BLOCK          @D34UDFR 05700034
                                  20438+         DROP  R5                                           @D34UDFR 05708034

                                  20440+* IF ABSAVE PARAMETER WAS PASSED SETUP AB EXIT FOR SUBTASK              05732034
00EA38 BF1F 3008            00008 20441+         ICM   R1,M15,D8(R3) .     PICK UP ABSAVE AREA ADDRESS        05750034
00EA3C 4780 D342      0EA64       20442+         BZ    SVC38E .            BR IF NOT PRESENT                    05758034
00EA40 9101 A00F      0000F       20443+         TM    PIBFLG2,ABINPR      AB ROUTINE IN PROGRESS       @D33DDJO 05766034
00EA44 4710 D342      0EA64       20444+         BO    SVC38E              YES, DO NOT COPY AB ENTRY    @D33DDJO 05774034
00EA48 5840 074C            0074C 20445+         L     R4,ABPTR .          POINT TO AB OPTION TABLE           05782034
00EA4C 1854                       20446+         LR    R5,R4 .             WITH TWO REGISTERS                 05800034
00EA4E 8800 0001            00001 20447+         SRL   R0,L1 .             HALVE PIK TO GET M-T ABTAB DISPL   05808034
00EA52 1A40                       20448+         AR    R4,R0 .             POINT TO M-T AB ENTRY              05816034
00EA54 8820 0001            00001 20449+         SRL   R2,L1 .             HALVE TIK TO GET S-T ABTAB DISPL   05824034
00EA58 1A52                       20450+         AR    R5,R2 .             POINT TO S-T AB ENTRY              05832034
00EA5A D203 5000 4000 00000 00000 20451+         MVC   D0(L4,R5),D0(R4) .  COPY M-T AB RTN ADDR TO S-T AB ENTRY 05850034
00EA60 5015 0004            00004 20452+         ST    R1,D4(R5) .         PUT ABSAVE AREA ADDR IN S-T AB ENTRY  05858034
                            0EA64 20453+SVC38E   EQU   *                                                      05866034
00EA64 9602 A00F      0000F       20454+         OI    PIBFLG2,SUBSAT .    INDICATE S-T ATTACHED IN M-T PIB      05882034
00EA68 07F6                       20455+         BR    R6 .                GO TO TASK SELECTION                  05900034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 20457+*********************************************************************  05916034
                                 20458+* DETACH MACRO ROUTINE                                 **********************  05924034
                                 20459+*********************************************************************  05932034
                                 20460+* REGISTER 1 IS USED TO PASS A PARAMETER                                 05950034
                                 20461+* THE CONTENTS OF R1 VARY FOR DIFFERENT TYPES OF DETACH                  05958034
                                 20462+* 1 - DETACH ISSUED BY A MAINTASK                                        05966034
                                 20463+*       R1 MUST CONTAIN POINTER TO SAVEAREA OF SUBTASK TO BE DETACHED   05974034
                                 20464+* IN THE FOLLOWING CASES THE CONTENTS OF R1 ARE IGNORED :               05982034
                                 20465+* 2 -  DETACH ISSUED BY SUBTASK                                         06000034
                                 20466+* 3 -  DETACH ISSUED BY TERMINATOR                                      06008034
                                 20467+* 4 -  DETACH FROM AB ROUTINE                                          06016034
                                 20468+*                                                                      06024034
                                 20469+* IN PRINCIPLE THE SAME ACTION IS TAKEN IN CASES 1,2, AND 3            06032034
                                 20470+* IF OUTSTANDING I/O, TERMINATOR IS FETCHED, OTHERWISE THE TASK IS     06050034
                                 20471+* DETACHED.                                                           06058034


00EA6A D500 0753 067F 00753 0067F 20473+SVC39    CLC   TIK+D1(L1),PIK+D1  DETACH ISSUED BY MAINTASK?   @DL28535 06074034
00EA70 4770 D39C      0EABE       20474+         BNE   ST$$DET .          NO, FROM SUBTASK OR TERMINATOR        06082034

                                 20476+* DETACH ISSUED BY MAINTASK                                            06108034
00EA74 1211                      20477+         LTR   R1,R1 .            SAVE PARAMETER SPECIFIED?             06116034
00EA76 4780 09EA      009EA      20478+         BZ    ERR21 .            NO, ILLEGAL SVC FROM MAINTASK         06124034
00EA7A 4121 007F            0007F 20479+         LA    R2,D127(R1) .      ENDING ADDRESS OF SAVE AREA           06250034
00EA7E 4580 B2D2            012D2 20480+         BAL   R8,VALID .         VALIDATE SAVE AREA ADDRESS            06258034
00EA82 910F 1078      00078       20481+         TM    D120(R1),TIKMASK . VALID TIK FOR SUBTASK?                06266034
00EA86 4770 09EA      009EA       20482+         BNZ   ERR21 .            NO, ILLEGAL SVC FROM MAINTASK         06274034
00EA8A 9550 1078      00078       20483+         CLI   D120(R1),HPIKMT .  TIK GT HIGHEST MAIN TASK ID? @DL01937 06282034
00EA8E 47D0 09EA      009EA       20484+         BNH   ERR21 .            NO, ILLEGAL SVC FROM MAINTSK @DL01937 06300034
00EA92 1B22                       20485+         SR    R2,R2 .                                        @DL28535 06308034
00EA94 4321 0078            00078 20486+         IC    R2,D120(R1) .      R2 CONTAINS TIK OF SUBTASK   @DL28535 06316034
                                 20487+* PROTECT SUBTASKS OF OTHER PARTITIONS                                 06332034
00EA98 4A20 06CC            006CC 20488+         AH    R2,YPIB2TAB .      POINT R2 TO PIB EXT. OF SUB  @DL28535 06350034
                                 20489+         DROP  RA                                                     06358034
                            00000 20490+         USING PIBADR,R2                                              06366034
00EA9C D501 067E 200C 0067E 0000C 20491+         CLC   PIK,PIBPIK .       SUBTASK BELONGS TO PARTITION?         06374034
00EAA2 4770 09EA      009EA       20492+         BNE   ERR21 .            NO, ILLEGAL SVC                       06382034

00EAA6 4122 0100            00100 20494+         LA    R2,PIBTAB-PIB2TAB(R2) POINT R2 TO PIB OF SUBTASK     346 06408034
00EAAA 910C 200F      0000F       20495+         TM    PIBFLG2,CNCLD+FETCHEOJ SUBTSK ALREADY CANCELING @DM01248 06416034
00EAAE 0776                       20496+         BCR   NZ,R6 .            IGNORE DETACH                @DM01248 06424034
00EAB0 9210 2001      00001       20497+         MVI   PIBCNCL,NORMEOJ .  INDICATE DETACH REQUEST            FR 06432034
00EAB4 9601 2000      00000       20498+         OI    PIBFLG,IOCMPL .    READY TASK WHEN IO BOUND            FR 06450034
00EAB8 9608 200F      0000F       20499+         OI    PIBFLG2,FETCHEOJ . MARK FOR DETACH              @DM01248 06458034
00EABC 07F6                       20500+         BR    R6 .               GOTO EXIT                            FR 06466034
                            00000 20501+         USING PIBADR,RA                                              06474034

                                 20503+* HANDLE FURTHER AS IF SUBTASK IS DETACHING. R3 CONTAINS THE TIK OF     06500034
                                 20504+* THE SUBTASK TO BE DETACHED.  THE TIK VALUE CONTAINS THE INTERRUPT     06508034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  20505+* KEY OF THE SUB TO BE DETACHED. RA POINTS TO SUBTASK PIB.              06516034


                                  20507+* WHEN SUBTASK OR TERMINATOR ISSUED DETACH, OPERAND WILL BE IGNORED     06532034
                           0EABE 20508+ST$$DET  EQU   * .                                          BSW 06550034
00EABE 9101 A00F      0000F       20509+         TM    PIBFLG2,ABINPR .   TASK IN ITS AB ROUTINE?          06566034
00EAC2 4710 D03A      0E75C       20510+         BO    INITCNCL .         YES, TERMINATE TASK       @DM01248 06574034
00EAC6 5840 071C           0071C 20511+         L     R4,ACHANQ .        POINTER TO CHANNEL QOUEUE             06600034
00EACA 4870 0720           00720 20512+         LH    R7,LTHIDQ .        NUMBER OF CHANNEL QUEUE ENTRIES       06608034
00EACE D500 0753 4007 00753 00007 20513+TASKCLI  CLC   TIK+D1(L1),TKREQID  I/O  QUEUED FOR THIS TASK  @DL28535 06616034
00EAD4 4780 0A0A      00A0A       20514+         BE    ERR10 .            YES, SUBTASKS NORMAL EOJ              06624034
00EAD8 4144 0008           00008 20515+         LA    R4,L8(R4) .        POINT TO NEXT ENTRY                   06632034
00EADC 4670 D3AC           0EACE 20516+         BCT   R7,TASKCLI .       SCAN CHANNELQUEUE FOR OUTSATANDING IO 06650034

00EAE0 187A                      20518+         LR    R7,RA              COPY PIB POINTER          @D34XDJO 06674034
00EAE2 4B70 0BDE           00BDE 20519+         SH    R7,PIBDIFF         POINT TO PIB EXTENSION    @D34XDJO 06682034
                                 20520+         DROP  RA                                       @D34XDJO 06700034
                           00000 20521+         USING PIBADR,R7                                @D34XDJO 06708034
00EAE6 9101 700F      0000F       20522+         TM    PIBFLG3,PIBXECB    XECB TERMINATION REQUIRED @D34XDJO 06716034
00EAEA 4710 0A0A      00A0A       20523+         BO    ERR10              YES, SUBTASKS NORMAL EOJ  @D34XDJO 06724034
                                 20524+         DROP R7                                        @D34XDJO 06732034
                           00000 20525+         USING PIBADR,RA                                @D34XDJO 06750034
00EAEE 58D0 08AC           008AC 20526+         L     RD,APAGEOPT .      SET BASE REGISTER         @DL2982F 06874034
00EAF2 455D 041A           0041A 20527+         BAL   R5,SCANPGT-PAGEOPT(RD) SCAN PAGETAB            @DL2982F 06882034
00EAF6 58D0 0894           00894 20528+         L     RD,APBASE            RESTORE SGAP BASE         @D34RDFG 06900034

00EAFA 45F0 0AD4           00AD4 20530+         BAL   RF,ERRSET .        READY TASK FOR CANCEL          FR 06924034
00EAFE 5880 A004           00004 20531+         L     R8,PIBSAVE .       ADDRESS OF SAVE AREA           FR 06932034
00EB02 9200 8078      00078       20532+         MVI   D120(R8),ZERO .     CLEAR SUBT ID IN ITS SAVE AREA    06982034


00EB06 58E0 0778           00778 20534+         L     RE,APMGR           MAKE PMGR ADDRESSABLE     @DM04115 07216034
                           082E6 20535+         USING PMGRADR,RE                               @DM04115 07224034
00EB0A 4530 E4EA           087D0 20536+         BAL   R3,RESPHO          DELETE TASK'S PHO ENTRIES @DM04115 07232034
                                 20537+         DROP  RE                                       @D34UDFR 07250034


                                 20539+* GET ECB ADDRESS IN R1 AND UNWAIT TASKS OF PARTITION WAITING FOR       07274034
                                 20540+* THIS ECB. CLEAR ECB ADDRESS AND PIB DISPL. IN PIBEXTENSION            07282034
00EB0E 182A                      20541+         LR    R2,RA .            POINT R2 TO                           07300034
00EB10 4B20 0BDE           00BDE 20542+         SH    R2,PIBDIFF .       PIB EXTENSION                         07308034
00EB14 5812 0008           00008 20543+         L     R1,D8(R2) .        ECB POINTER IN R1                     07316034
00EB18 1211                      20544+         LTR   R1,R1 .            IS THERE AN ECB?                      07324034
00EB1A 4780 D40E      0EB30       20545+         BZ    SVC39E .           NO, DO NOT READY TASKS                07332034
00EB1E 9680 1002      00002       20546+         OI    D2(R1),TRABIT .    POST THE ECB                          07350034
00EB22 D703 2008 2008 00008 00008 20547+         XC    D8(L4,R2),D8(R2) . CLEAR ECB ADDRESS              FR 07358034
00EB28 4560 D5A2           0ECC4 20548+         BAL   R6,UNWAIT .        YES, READY WAITING TASKS  @DA01532 07366034
00EB2C 5860 086C           0086C 20549+         L     R6,DISPAD          RELOAD EXIT ADDRESS       @DM05356 07374034

                                 20551+* POST SUPERVISOR ECB AND READY MAINTASKS WAITING FOR THIS ECB          07400034
                                 20552+* FIND MVCFLD BELONGING TO SUBTASK                                     07408034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   20553+* IF IT IS LAST SUBTASK,READY MAINTASK AND UNPOST SUBS ATTACHED         07416034
                                   20554+* READY MAINTASKS WITH HIGHER PRIORITY WAITING FOR SUPERVISOR ECB       07424034
                                   20555+         DROP  RA                                              @DM01394 07432034
                              00000 20556+         USING PIBADR,R2                                       @DM01394 07450034
                              00000 20557+         USING SVEARA,R8                                       @DM01394 07458034
00EB30 9180 097E      0097E        20558+SVC39E   TM    SPVECB+D2,TRABIT . TRABIT ON IN SPVECB          @DA08715 07466034
00EB34 4710 D44E      0EB70        20559+         BO    SVC39C .           YES,NO TASK CAN WAIT FOR     @DM03432 07474034
00EB38 9680 097E      0097E        20560+         OI    SPVECB+D2,TRABIT . POST PIB AVAILABLE ECB       @DM01394 07482034
00EB3C 9200 094D      0094D        20561+         MVI   TRTG38,ZERO .      INDICATE DETACH WORKING      @DM03432 07500034
00EB40 4110 097C            0097C  20562+         LA    R1,SPVECB .        ADDRESS OF SUPERVISOR ECB    @DM01394 07508034
00EB44 4820 06AA            006AA  20563+         LH    R2,YPIBTAB .       ADDRESS OF PIB AREA          @DM01394 07516034
00EB48 4170 0005            00005  20564+         LA    R7,HPIKMT/16 .     NUMBER OF PARTITIONS         @DM01394 07524034
00EB4C 4122 0010            00010  20565+SVC39A   LA    R2,D16(R2) .       ADDRESS OF USER PIBS         @DM01394 07532034
00EB50 9582 2000      00000        20566+         CLI   PIBFLG,IOBND .     TASK SET TO I/O BOUND        @DM01394 07550034
00EB54 4770 D446      0EB68        20567+         BNE   SVC39B .           NO,CANNOT WAIT FOR SUB PIB   @DM01394 07558034
00EB58 5880 2004            00004  20568+         L     R8,PIBSAVE .       ADDRESS OF SAVE AREA         @DM01394 07566034
00EB5C BD17 8031            00031  20569+         CLM   R1,7,SVER01+D1 .   USERS R1 POINTS TO SPVECB    @DM04358 07574034
00EB60 4770 D446      0EB68        20570+         BNE   SVC39B .           NO,CANNOT WAIT FOR SUB PIB   @DM01394 07582034
00EB64 9267 2000      00000        20571+         MVI PIBFLG,G38BND .      PIBFLAG TO SPVECB-BOUND      @DM01394 07600034
00EB68 4670 D42A            0EB4C  20572+SVC39B   BCT   R7,SVC39A .        CONTINUE WITH NEXT PIB       @DM01394 07608034
00EB6C 9283 094D      0094D        20573+         MVI   TRTG38,READY .     ACTIVATE ANY WAITERS         @DM03432 07616034
                                   20574+         DROP  R2                                              @DM01394 07624034
                              00000 20575+         USING PIBADR,RA                                       @DM01394 07632034
00EB70 9280 A000      00000        20576+SVC39C   MVI   PIBFLG,NOTACT      MAKE SUBTASK NOT ACTIVE      @D34UDFR 07650034
00EB74 D701 A002 A002 00002 00002  20577+         XC    PIBLOGID,PIBLOGID  CLEAR SYSLOG ID               @DA08715 07658034
00EB7A 182A                        20578+         LR    R2,RA              POINT R2 TO                  @DA08715 07666034
00EB7C 4B20 0BDE            00BDE  20579+         SH    R2,PIBDIFF         PIB EXTENSION AGAIN          @DA08715 07674034
00EB80 9200 200D      0000D        20580+         MVI   D13(R2),ZERO       RESET PIBDIS IN PIBEXT       @DA08715 07682034
00EB84 5850 0834            00834  20581+         L     R5,PCBPTR          POINTER TO PART.CTL.BLOCK    @D34UDFR 07700034
                            00000  20582+         USING PCBADR,R5                                       @D34UDFR 07708034
00EB88 4810 5002            00002  20583+         LH    R1,PCBTNR          UPDATE                       @D34UDFR 07716034
00EB8C 0610                        20584+         BCTR  R1,R0              NUMBER OF TASKS IN           @D34UDFR 07724034
00EB8E 4010 5002            00002  20585+         STH   R1,PCBTNR          PARTITION CONTROL BLOCK      @D34UDFR 07732034
00EB92 4610 D490            0EBB2  20586+         BCT   R1,MVCPOINT        BRANCH IF SUBTASKS ATTACHED  @D34UDFR 07750034
                                   20587+         DROP  R5                                              @D34UDFR 07758034
                                   20588+* IT WAS LAST SUBTASK ATTACHED                                        07766034
                                   20589+* UNPOST SUBS ATTACHED AND READY MAINTASK                             07774034
00EB96 4820 06AA            006AA  20590+         LH    R2,YPIBTAB .       -GET PIB POINTER                     07782034
00EB9A 4A20 067E            0067E  20591+         AH    R2,PIK .           - OF MAINTASK                        07800034
00EB9E 94FD 200F      0000F        20592+         NI    D15(R2),NOSUBAT .  UNPOST NO SUBS ATTACHED              07808034
00EBA2 9601 2000      00000        20593+         OI    D0(R2),IOCMPL .    READY TASK WHEN IO-BOUND        FR 07816034
00EBA6 9581 2000      00000        20594+         CLI   D0(R2),LTABND .    WAS TASK  ACTIVE                FR 07824034
00EBAA 4770 D490      0EBB2        20595+         BNE   MVCPOINT .         YES,DO NOT READY TASK           FR 07832034
00EBAE 9283 2000      00000        20596+         MVI   D0(R2),READY .     READY MAINTASK                       07850034
                                   20597+* IF SUBTASK TO BE DETACHED OCCUPIES LTA,SWAP SAVEAREA POINTERS AND    07858034
                                   20598+* FREE LTA. IF IT OWNS LTA BUT DOES NOT OCCUPY IT, FREE LTA ONLY.      07866034
                            0EBB2  20599+MVCPOINT EQU   * .                                              FR 07874034

                                   20601+* REMOVE MVCFLDBYTE OF SUBTASK TO BE DETACHED BY SHIFTING MVCFLDBYTES  07900034
                                   20602+* RIGHT OF IT TO THE LEFT.                                           07908034
                                   20603+* READY MAINTASKS WITH LOWER PRIORITY WAITING FOR SUPERVISOR ECB.     07916034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00EBB2 5850 D682            0EDA4 20605+         L     R5,MVCFLDEA        UPDATE                        @D34UDFR 07932034
00EBB6 0650                       20606+         BCTR  R5,R0              ENDADDRESS OF                 @D34UDFR 07950034
00EBB8 5050 D682            0EDA4 20607+         ST    R5,MVCFLDEA        MVCFLD                        @D34UDFR 07958034
00EBBC 1B11                       20608+         SR    R1,R1              CLEAR REG.TO ALLOW COMPARE    @D34UDFR 07966034
00EBBE 4310 5001            00001 20609+         IC    R1,D1(,R5)         LAST BYTE OF MVCFLD           @D34UDFR 07974034
00EBC2 0650                       20610+SVC39LP  BCTR  R5,R0              REDUCE MVCFLD POINTER         @D34UDFR 07982034
00EBC4 1801                       20611+         LR    R0,R1              SHIFT TO LEFT                 @D34UDFR 08000034
00EBC6 4310 5001            00001 20612+         IC    R1,D1(,R5)         RIGHTHAND BYTES OF            @D34UDFR 08008034
00EBCA 4200 5001            00001 20613+         STC   R0,D1(,R5)         THE MVCFLD                    @D34UDFR 08016034
00EBCE 4910 0752            00752 20614+         CH    R1,TIK             TASKS ID OVERWRITTEN NOW      @D34UDFR 08024034
00EBD2 4770 D4A0      0EBC2       20615+         BNE   SVC39LP            NO,CONTINUE SHIFTING          @D34UDFR 08032034
                            0EBD6 20616+SHIFTFI  EQU   * .                SHIFT OF MVCFLD COMPLETE                08050034
00EBD6 4830 0752            00752 20617+         LH    R3,TIK .           GET TIK AND          @DL28535,@DM02953 08058034
                                  20618+* CLEAR AB TABLE ENTRY                                                    08074034
00EBDA 5870 074C            0074C 20619+         L     R7,ABPTR .         POINT TO AB-TABLE                       08082034
00EBDE 8830 0001            00001 20620+         SRL   R3,L1 .            DIVIDE TIK BY TWO                       08100034
00EBE2 1A73                       20621+         AR    R7,R3 .            FOR CORRECT AB-TABLE ENTRY              08108034
00EBE4 D707 7000 7000 00000 00000 20622+         XC    D0(L8,R7),D0(R7) . CLEAR THIS ENTRY                        08116034

                                  20624+* CLEAR PC TABLE ENTRY                                                    08158034
00EBEA 4870 06B4            006B4 20625+         LH    R7,YPCTAB .        POINT TO PC-TABLE                       08166034
00EBEE 1A73                       20626+         AR    R7,R3 .            FOR CORRECT PC-TABLE ENTRY              08208034
00EBF0 D707 7000 7000 00000 00000 20627+         XC    D0(L8,R7),D0(R7) . CLEAR THIS ENTRY                        08216034
                                  20628+* CLEAR ITTAB AND ITREQ ENTRIES                                     HK    08250034
00EBF6 4870 0752            00752 20629+         LH    R7,TIK .           * COMPUTE                          HK    08258034
00EBFA 4140 0010            00010 20630+         LA    R4,16 .            * CORRECT                          HK    08266034
00EBFE 1B74                       20631+         SR    R7,R4 .            *                                  HK    08274034
00EC00 8A70 0001            00001 20632+         SRA   R7,1 .             *                                  HK    08282034
00EC04 4A70 06B6            006B6 20633+         AH    R7,YITTAB .        * ITTAB ENTRY                      HK    08300034
00EC08 D707 7000 7000 00000 00000 20634+         XC    D0(L8,R7),D0(R7) . CLEAR THE ENTRY                    HK    08308034
00EC0E D500 B861 0753 01861 00753 20635+         CLC   TWTIMS+1(L1),TIK+1 .DOES TIMER INTERV.BELONGS TO TASK HK    08316034
00EC14 4770 D4FE      0EC20       20636+         BNE   MTILAB1                                                  HK    08324034
00EC18 9200 B861      01861       20637+         MVI   TWTIMS+1,X'00' .   YES,SET INT.BELONGS NOW TO NO TASK HK    08332034
00EC1C 47F0 D528      0EC4A       20638+         B     MTIEND                                                   HK    08350034
00EC20 5870 0748            00748 20639+MTILAB1  L     R7,IJBTIMER .      GET ITREQ TABLE ADDR                   HK    08358034
00EC24 0540                       20640+         BALR  R4,0                                                     HK    08366034
00EC26 D501 0753 7000 00753 00000 20641+         CLC   TIK+1,0(R7) .      DOES ENTRY BELONGS TO TASK             HK    08374034
00EC2C 4780 D51C      0EC3E       20642+         BE    MTILAB2 .          YES,OVERWRITE IT WITH THE NEXT         HK    08382034
00EC30 9500 7000      00000       20643+MTILAB3  CLI   0(R7),X'00' .      TABLE END REACHED                      HK    08400034
00EC34 4177 0005            00005 20644+         LA    R7,5(R7) .         POINT TO NEXT ENTRY                    HK    08408034
00EC38 0774                       20645+         BCR   7,R4 .             NOT THE END OF TABLE,TAKE NEXT         HK    08416034
00EC3A 47F0 D528      0EC4A       20646+         B     MTIEND                                                   HK    08424034
00EC3E 0540                       20647+MTILAB2  BALR  R4,0                                                     HK    08432034
00EC40 D204 7000 7005 00000 00005 20648+         MVC   0(5,R7),5(R7) .    MOVE ENTRY ONE HIGHER IN TABLE         HK    08450034
00EC46 47F0 D50E      0EC30       20649+         B     MTILAB3                                                  HK    08458034
                            0EC4A 20650+MTIEND   EQU   *                                                        HK    08466034

                                  20652+* INSERT ENTRY IN TIDTRT                                                  08500034
00EC4A 8830 0003            00003 20653+         SRL   R3,L3 .            GET TIK DIVIDED BY 16                  08550034
00EC4E 4233 B862            01862 20654+         STC   R3,TIDTRT(R3) .    INSERT IN TIDTRT                       08566034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00EC52 4570 B310            01310 20656+         BAL   R7,PURWAITL .      PURGE WAIT LIST ENTRY             BSW 08582034
00EC56 58D0 089C            0089C 20657+         L     RD,RMBASE          LOAD SGRM BASE                @D34RDFG 08600034
                            0F43A 20658+         USING SGRM,RD                                            @D34RDFG 08608034
00EC5A 47F0 D4CC      0F906       20659+         B     SVC64ALL .         RELEASE ALL RESRCES OWNED BY THIS BSW 08616034
                                  20660+*                                    TASK AND GO TO TASK SELECTION  BSW 08624034
                            0E722 20661+         USING SGAP,RD            RESET TO SGAP BASE            @D34RDFG 08632034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 20663+*********************************************************************** 08658034
                                 20664+*                                                                     * 08666034
                                 20665+* SVC40 OR POST ROUTINE                                               * 08674034
                                 20666+*                                                                     * 08682034
                                 20667+*********************************************************************** 08700034



                                 20669+*********************************************************************** 08716034
                                 20670+* SVC40 POST ROUTINE  :  POST THE ECB WHOSE ADDRESS IS IN R1   @DM12691 08724034
                                 20671+*                        IF SAVE PARAMETER NOT SPECIFIED :            08732034
                                 20672+*                         GET ALL TASKS WAITING FOR THAT ECB OUT OF THE 08750034
                                 20673+*                         WAIT STATE                                  08758034
                                 20674+*                        IF SAVE PARAMETER SPECIFIED     :            08766034
                                 20675+*                         GET TASK WHOSE SAVE AREA ADDRESS IS SPECIFIED 08774034
                                 20676+*                         BY PARAMETER OUT OF WAIT STATE              08782034
                                 20677+*     REGISTER USAGE:                                                 08800034
                                 20678+*     R0 SAVE AREA ADDRESS IF SAVE PARAMETER SPECIFIED,OTHERWISE 0    08808034
                                 20679+*     R1 ECB ADDRESS                                                  08816034
                                 20680+*     R2 ECB ADDRESS+3 FOR ADDRESS VALIDATION                         08824034
                                 20681+*     R4 USED IN MAINTASK/SUBTASK SUBROUTINE                          08832034
                                 20682+*     R5 ---IDEM---                                                   08850034
                                 20683+*     R7 EXIT REGISTER                                                08858034
                                 20684+*********************************************************************** 08866034

00EC5E                           20686+SVC40    DS    0H                                          @D32DUHK 08882034
00EC5E 4121 0003         00003   20687+         LA    R2,D3(R1) .       LOAD LAST BYTE OF ECB     @D32DUHK 09050034
00EC62 4580 B2C4         012C4   20688+         BAL   R8,VALIDSVA       VALIDATE THE ECB ADDRESS  @DM14275 09058034
00EC66 9680 1002   00002         20689+SVC40B   OI    D2(R1),TRABIT .   POST THE ECB              @D32DUHK 09066034
00EC6A 1220                      20690+         LTR   R2,R0 .           WAS SAVE PARAMETER SPECIFIED @DF01199 09074034
00EC6C 4770 D552   0EC74         20691+         BNE   YESSAVE .         YES, POST ONLY ONE TASK             09082034
00EC70 47F0 D5A2   0ECC4         20692+         B     UNWAIT .          NO,POST ALL TASKS         @DA01532 09100034


                                 20694+* SAVE PARAMETER WAS SPECIFIED                                      09116034
00EC74 4122 0000         00000   20695+YESSAVE  LA    R2,D0(R2)         CLEAR HIGH ORDER BYTE     @DF01199 09124034
00EC78 1876                      20696+         LR    R7,R6 .           SETUP EXIT FOR SUBTASK ROUT. @DA01532 09132034
00EC7A 4590 D578         0EC9A   20697+         BAL   R9,MAINTASK .     R4 PIB  POINTER MAIN      @DM00582 09150034
00EC7E 47F0 D564   0EC86         20698+         B     YESSAV1 .         CONTINUE MAINLINE                   09158034
00EC82 4590 D598         0ECBA   20699+YESSAV2  BAL   R9,SUBTASK .      R4 PIB  POINTER SUB                 09166034
                                 20700+*                                 EXIT VIA R7 IF ALL SUBS HAD         09174034
00EC86 4590 D14A         0E86C   20701+YESSAV1  BAL   R9,GETSAV1 .      GET SAVE AREA POINTER IN R8         09182034
00EC8A 4188 0000         00000   20702+         LA    R8,D0(R8) .       ZERO OUT HIGH ORDER BYTE            09200034
00EC8E 1928                      20703+         CR    R2,R8 .           TASK IDENTIF.BY ITS SAVE PAR.@DF01199 09208034
00EC90 4770 D560   0EC82         20704+         BNE   YESSAV2 .         NO, TRY NEXT TASK                   09216034
00EC94 9601 4000   00000         20705+         OI    D0(R4),IOCMPL .   YES ,POST THE TASK                  09224034
00EC98 07F6                      20706+         BR    R6 .              GO TO TASK SELECTION                09232034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  20708+*********************************************************************** 09258034
                                  20709+*                                                                     * 09266034
                                  20710+* MAINTASK/SUBTASK SUBROUTINE                                         * 09274034
                                  20711+*                                                                     * 09282034
                                  20712+*********************************************************************** 09300034


                                  20714+*********************************************************************** 09316034
                                  20715+* MAINTASK/SUBTASK SUBROUTINE : GIVE PIB  POINTERS TO                  09324034
                                  20716+*                               MAIN/SUB-TASK BELONGING TO PARTITION    09332034
                                  20717+* TWO ENTRYPOINTS:                                                     09350034
                                  20718+* MAINTASK : GIVE ON RETURN(R9) R4 POINTING TO PIBTABLE OF MAINTASK     09358034
                                  20719+*                               R5 POINTS TO MVCFLD OF TASK MINUS ONE   09366034
                                  20720+* SUBTASK  : ON ENTRY IT IS ASSUMED THAT R5 POINTS TO A MVCFLDBYTE      09374034
                                  20721+*            IT HAS TWO EXITS,DEPENDING DN THE MVCFLDBYTE:             09382034
                                  20722+*   1.MVCFLD BYTE CORRESPONDS TO A PIB BELONGING TO PARTITION:          09400034
                                  20723+*            RETURN VIA R9 : R4 POINTING TO PIB  OF TASK               09408034
                                  20724+*                            R5 ONE LESS THAN R5 ON ENTRY              09416034
                                  20725+*   2.MVCFLD BYTE DOES NOT CORRESPOND TO A PIB BELONGING TO PARTITION:  09424034
                                  20726+*            RETURN VIA R7 : REGISTER HAVE NOT BEEN MODIFIED           09432034
                                  20727+*                       REGISTER USAGE:                                09450034
                                  20728+*                       R4,R5 ARE MODIFIED                             09458034
                                  20729+*                       R7,R9 ARE RETURN REGISTERS                     09466034
                                  20730+*********************************************************************** 09474034
00EC9A 4150 B5FE            015FE 20731+MAINTASK LA    R5,MVCFLD .        POINTER TO FIRST BYTE OF MVCFLD       09482034
00EC9E 4155 0001            00001 20732+FINDMAIN LA    R5,D1(R5) .        POINTER TO NEXT BYTE OF MVCFLD        09500034
00ECA2 D500 5000 067F 00000 0067F 20733+         CLC   D0(L1,R5),PIK+D1 . DOES TIK EQUAL PIK?                  09508034
00ECA8 4770 D57C      0EC9E       20734+         BNE   FINDMAIN .         NO, CONTINUE SCAN FOR MAINTASK        09516034
00ECAC 1B44                       20735+GETPIB   SR    R4,R4 .            - THESE THREE INSTRUCTIONS            09524034
00ECAE 4345 0000            00000 20736+         IC    R4,D0(R5) .        - POINT R4 TO THE PIB                 09532034
00ECB2 4A40 06AA            006AA 20737+         AH    R4,YPIBTAB .       - OF TASK WITH SAME PIK               09550034
00ECB6 0650                       20738+         BCTR  R5,R0 .            POINT TO FOREGOING MVCFLD BYTE    435 09558034
00ECB8 07F9                       20739+         BR    R9 .               RETURN                               09566034
00ECBA 9550 5000      00000       20740+SUBTASK  CLI   D0(R5),HPIKMT .    STILL A SUBTASK OF PARTITION?         09574034
00ECBE 4720 D58A      0ECAC       20741+         BH    GETPIB .           YES, GET PIB AND SAVE AREA ADDRESSES  09582034
00ECC2 07F7                       20742+         BR    R7 .               RETURN, ALL TASKS HAVE BEEN HAD       09600034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 20744+*************************************************************************** 09616034
                                 20745+*                                                                         * 09624034
                                 20746+*  UNWAIT ROUTINE                                                         * 09632034
                                 20747+*                                                                         * 09650034
                                 20748+*************************************************************************** 09658034



                                 20750+*************************************************************************** 09674034
                                 20751+* UNWAIT ROUTINE : ALL TASKS OF PARTITION OUT OF WAIT STATE IF THEY   * 09682034
                                 20752+*                  WAIT FOR ECB/RCB WHICH ADDRESS IS IN R1             * 09700034
                                 20753+* TWO ENTRYPOINTS :                                                     * 09708034
                                 20754+* UNWAIT : IF R1 POINTS TO ECB                                         * 09716034
                                 20755+* UNWTDEQ: IF R1 POINTS TO RCB (ENTRY FROM DEQUEUE ROUTINE)           * 09724034
                                 20756+*          EXIT IS ALWAYS VIA R7, IF ALL TASKS OF PARTITION HAVE BEEN * 09732034
                                 20757+*          INVESTIGATED, THIS EXIT IS TAKEN IN SUBTASK SUBROUTINE     * 09750034
                                 20758+*          IF TASK IS FOUND WAITING FOR RCB, WANTBIT IN RCB IS CLEARED* 09758034
                                 20759+*    REGISTER USAGE :                                                 * 09766034
                                 20760+*    R1 POINTS TO ECB/RCB                                             * 09774034
                                 20761+*    R2 INDICATES IF R1 POINTS TO ECB/RCB                             * 09782034
                                 20762+*    R4,R5,R9 ARE SET UP FOR  MAINTASK/SUBTASK SUBROUTINE             * 09800034
                                 20763+*    R7 IS RETURN REGISTER, THIS RETURN IS TAKEN IN SUBTASK           * 09808034
                                 20764+*       SUBROUTINE IF ALL SUBTASKS OF PARTITION HAVE BEEN HAD.        * 09816034
                                 20765+*************************************************************************** 09824034



                                 20767+         DROP  RA .                                          @DA01532 09850034
                          00000  20768+         USING PIBADR,R5 .       PIB BASE REGISTER           @DA01532 09858034
00ECC4 4590 D5BE              0ECE0 20769+UNWAIT   BAL   R9,UNWTDEQ .    GOTO TEST FOR IO-BOUND TASKS @DA01532 09866034
00ECC8 951D 5007       00007       20770+         CLI   SVCIC,N29 .     IS IT SVC29 WAITM           @DA01532 09874034
00ECCC 4780 D5B8       0ECDA       20771+         BE    UNWAIT1 .       YES,POST TASK TO REISSUE WAIT@DA01532 09882034
00ECD0 5884 0004              00004 20772+         L     R8,D4(R4) .     ADDRESS OF SAVE AREA        @DA01532 09900034
00ECD4 BD17 8031              00031 20773+         CLM   R1,M7,SVER01+D1 . WAITING FOR THIS ECB      @DA01532 09908034
00ECD8 0773                         20774+         BCR   NE,R3 .         NO,GOTO TEST NEXT TASK      @DA01532 09916034
00ECDA 9601 4000       00000       20775+UNWAIT1  OI    D0(R4),IOCMPL .  POST TASK                  @DA01532 09924034
00ECDE 07F3                         20776+         BR    R3 .            CONTINUE WITH NEXT TASK     @DA01532 09932034
00ECE0 4820 067E              0067E 20777+UNWTDEQ  LH    R2,PIK .        LOAD PARTITION IDENTIFIER   @DA01532 09950034
00ECE4 4850 06CC              006CC 20778+         LH    R5,YPIB2TAB .   POINTER TO PIBEXT.          @DA01532 09958034
00ECE8 1A52                         20779+         AR    R5,R2 .         ADDRESS OF MAINTASKS PIBEXT @DA01532 09966034
00ECEA 4530 D5E6              0ED08 20780+         BAL   R3,UNWTEST1 .   TEST WHETHER IO-BOUND       @DA01532 09974034
00ECEE 1B52                         20781+         SR    R5,R2 .         POINTER TO PIBEXT.          @DA01532 09982034
00ECF0 4155 0060              00060 20782+         LA    R5,HPIKMT+D16(R5) ADDRESS OF SUBTASK PIB    @DA01532 10000034
00ECF4 4530 D5E0              0ED02 20783+         BAL   R3,UNWTEST .    TEST WHETHER IO-BOUND       @DA01532 10008034
00ECF8 4155 0010              00010 20784+         LA    R5,D16(R5) .    ADDRESS OF NEX SUB. PIBEXT  @DA01532 10016034
00ECFC 4950 06AA              006AA 20785+         CH    R5,YPIBTAB .    ALL SUBTASK TESTED          @DA01532 10024034
00ED00 0786                         20786+         BCR   E,R6 .          GOTO EXIT IF YES            @DA01532 10032034
00ED02 4920 500C              0000C 20787+UNWTEST  CH    R2,PIBPIK .     SUB BELONGS TO MAIN         @DA01532 10050034
00ED06 0773                         20788+         BCR   NE,R3 .         NO,GOTO TEST NEXT TASK      @DA01532 10058034
00ED08 9582 5100       00100       20789+UNWTEST1 CLI   PIBTAB-PIB2TAB+PIBFLG,IOBND IS IT IO-BOUND @DA01532 10066034
00ED0C 0773                         20790+         BCR   NE,R3 .         NO,GOTO TEST NEXT TASK      @DA01532 10074034
00ED0E 4140 5100              00100 20791+         LA    R4,PIBTAB-PIB2TAB+PIBADR PIB POINTER        @DA01532 10082034
00ED12 07F9                         20792+         BR    R9 .            GOTO CALLER TO POST TASK    @DA01532 10100034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00ED14 4590 D5BE            0ECE0 20793+UNWTDQ1  BAL   R9,UNWTDEQ                                          @DM15969 10108034
00ED18 952A 5007      00007       20794+         CLI   7(R5),42          WAITING FOR DEQ                   @DM15969 10116034
00ED1C 0773                       20795+         BNER  R3                NO,DO NOT POST TASK               @DM15969 10124034
00ED1E 5884 0004            00004 20796+         L     R8,4(R4)          ADDRESS OF SAVE AREA              @DM15969 10132034
00ED22 D502 1005 8031 00005 00031 20797+         CLC   5(3,R1),SVER01+1  WAITING FOR THIS ECB              @DM15969 10150034
00ED28 0773                       20798+         BNER  R3                NO, DO NOT POST TASK              @DM15969 10158034
00ED2A 9601 4000      00000       20799+         OI    0(R4),IOCMPL      POST READY TO RUN                 @DM15969 10166034
00ED2E 07F3                       20800+         BR    R3                GO TO TEST NEXT PIB               @DM15969 10174034
                                  20801+*                                                                  @DM15969 10182034
                            00000 20802+         USING PIBADR,RA .       STANDARD PIB BASE                 @DA01532 10200034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  20804+*************************************************************** @D34UDFR 10232034
                                  20805+*                                                             * @D34UDFR 10250034
                                  20806+*        SVC57 :                                              * @D34UDFR 10258034
                                  20807+*        DISPLAY AND CHANGE PARTITION PRIORITIES              * @D34UDFR 10266034
                                  20808+*                                                             * @D34UDFR 10274034
                                  20809+*        FUNCTION: CALLED BY ATTENTION TASK                   * @D34UDFR 10282034
                                  20810+*            TO REQUEST CHANGE OR DISPLAY OF PARTITIONS       * @D34UDFR 10300034
                                  20811+*               DISPATCHING PRIORITIES                        * @D34UDFR 10308034
                                  20812+*        INPUT: R1 POINTS TO PRIORITY LIST                    * @D34UDFR 10350034
                                  20813+*            CHANGE REQUEST:PRIORITY LIST IS USED FOR INPUT   * @D34UDFR 10358034
                                  20814+*        OUTPUT:                                              * @D34UDFR 10366034
                                  20815+*            CHANGE REQUEST:DISPATCHING FIELDS ARE SETUP      * @D34UDFR 10374034
                                  20816+*            DISPLAY REQUEST:PRIORITY LIST USED FOR OUTPUT    * @D34UDFR 10382034
                                  20817+*                                                             * @D34UDFR 10400034
                                  20818+*************************************************************** @D34UDFR 10408034
                                  20819+*                                                             * @D34UDFR 10416034
                        00000 20820+         USING PCBADR,R5                                          @D34UDFR 10424034
                        05E18 20821+         USING DISP,R6                                            @D34UDFR 10432034
                        0ED30 20822+SVC57    EQU   *                                                  @D34UDFR 10450034
00ED30 1211                   20823+         LTR   R1,R1             PRIORITY SETUP REQUEST?          @D34UDFR 10458034
00ED32 4740 D64C      0ED6E   20824+         BM    SVC57D            NO,GOTO DISPLAY PRIORITIES       @D34UDFR 10466034
00ED36 9500 0753      00753   20825+         CLI   TIK+D1,ZERO       IS IT ATTENTION TASK             @D34UDFR 10474034
00ED3A 4770 09EA      009EA   20826+         BNE   ERR21             NO,INVALID SVC,CANCEL CALLER     @D34UDFR 10482034
00ED3E D20D D673 1000 0ED95 00000 20827+     MVC   STATPRTY+D1(5*3-1),D0(R1)      COPY PRTY.LIST   @D34UDFR 10500034
00ED44 4110 D672            0ED94 20828+     LA    R1,STATPRTY       POINTER TO PRIORITY LIST         @D34UDFR 10508034
                                  20829+*                                                              @D34UDFR 10516034
00ED48 4130 D682            0EDA4 20830+     LA    R3,PRTYCHN+PCBADR-PCBCHN PRTY.CHAIN POINTER      @D34UDFR 10524034
00ED4C 5840 D682            0EDA4 20831+     L     R4,MVCFLDEA       ENDADDRESS OF MVCFLD             @D34UDFR 10532034
00ED50 4850 1001            00001 20832+SVC57LP LH    R5,D1(,R1)      LOAD PART.IDENTIFIER             @D34UDFR 10550034
00ED54 8850 0002            00002 20833+     SRL   R5,D2             DIVIDE BY FOUR                   @D34UDFR 10558034
00ED58 5855 62B8            060D0 20834+     L     R5,PCBATAB(R5)    POINTER TO NEXT PRTY.PCB         @D34UDFR 10566034
00ED5C 45E0 D68A            0EDAC 20835+SVC57RET BAL  RE,UPDPRTY      CALL PRIORITY SETUP ROUTINE      @D34UDFR 10700034
00ED60 9540 1003      00003       20836+     CLI   D3(R1),C' '       END OF LIST REACHED              @D34UDFR 10708034
00ED64 0786                       20837+     BCR   E,R6              YES,GOTO DISPATCHER              @D34UDFR 10716034
00ED66 4110 1003            00003 20838+     LA    R1,D3(,R1)        ADDRESS OF NEXT ENTRY ON LIST    @D34UDFR 10724034
00ED6A 47F0 D62E      0ED50       20839+     B     SVC57LP           GOTO PROCESS NEXT PARTITION      @D34UDFR 10732034
                        0ED6E 20840+SVC57D   EQU   *                                                  @D34UDFR 10750034
00ED6E 4130 000F            0000F 20841+     LA    R3,5*3            ACTUAL LENGTH OF PRTY.LIST       @D34UDFR 10758034
00ED72 1903                       20842+     CR    R0,R3             COMPARE WITH SPEC.LENGTH         @D34UDFR 10766034
00ED74 47B0 D65C      0ED7E       20843+     BNL   SVC57D1           BRANCH IF LIST FITS INTO AREA    @D34UDFR 10774034
00ED78 1230                       20844+     LTR   R3,R0             USE SPECIFIED LENGTH OTHERWISE   @D34UDFR 10782034
00ED7A 47D0 09EA      009EA       20845+     BNP   ERR21             INVALID SVC                      @D34UDFR 10800034
00ED7E 4121 3000            00000 20846+SVC57D1 LA    R2,D0(R1,R3)    ENDADDRESS OF AREA USED          @D34UDFR 10808034
00ED82 4580 B2D2            012D2 20847+     BAL   R8,VALID          VALIDATE ADDRESS LIMITS          @D34UDFR 10816034
00ED86 0630                       20848+     BCTR  R3,R0             LENGTH CODE FOR MOVE             @D34UDFR 10824034
00ED88 4430 D66C            0ED8E 20849+     EX    R3,SVC57MVC       MOVE PRTY.LIST TO CALLER         @D34UDFR 10832034
00ED8C 07F6                       20850+     BR    R6                GOTO DISPATCHER                  @D34UDFR 10850034
00ED8E D20E 1000 D673 00000 0ED95 20851+SVC57MVC MVC   D0(5*3,R1),STATPRTY+D1      SETUP PRIORITY LIST @D34UDFR 10858034
00ED94                            20852+STATPRTY DS    0H                LIST OF STATIC PRIORITIES      @D34UDFR 10866034
00ED94 6B                         20853+     DC    C','              INITIAL NOBAL.SEPARATOR          @D34UDFR 10874034
00ED95 0010                       20854+     DC    AL2(1*16)         PARTITION IDENTIFIER             @D34UDFR 10958034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00ED97 6B                         20855+         DC    C','              SEPARATOR                      @D34UDFR 11050034
00ED98 0030                       20856+         DC    AL2(3*16)         PARTITION IDENTIFIER           @D34UDFR 10958034
00ED9A 6B                         20857+         DC    C','              SEPARATOR                      @D34UDFR 11050034
00ED9B 0020                       20858+         DC    AL2(2*16)         PARTITION IDENTIFIER           @D34UDFR 10958034
00ED9D 6B                         20859+         DC    C','              SEPARATOR                      @D34UDFR 11050034
00ED9E 0040                       20860+         DC    AL2(4*16)         PARTITION IDENTIFIER           @D34UDFR 10958034
00EDA0 6B                         20861+         DC    C','              SEPARATOR                      @D34UDFR 11050034
00EDA1 0050                       20862+         DC    AL2(5*16)         PARTITION IDENTIFIER           @D34UDFR 10958034
00EDA3 40                         20863+         DC    C' '              END OF LIST INDICATOR          @D34UDFR 11074034
00EDA4 00001604                   20864+MVCFLDEA DC    A(MVCFLD+5+1)      ENDADDRESS OF MVCFLD          @D34UDFR 11158034
00EDA8 0000F960                   20865+PRTYCHN  DC    A(PCBBG)          BEGIN OF PCB PRIORITY CHAIN    @D34UDFR 11166034
                                  20866+*                                                               @D34UDFR 11174034
                                  20867+*****************************************************************@D34UDFR 11182034
                                  20868+*                                                              *@D34UDFR 11200034
                                  20869+*       PRIORITY SETUP ROUTINE                                 *@D34UDFR 11208034
                                  20870+*                                                              *@D34UDFR 11216034
                                  20871+*       FUNCTION:                                              *@D34UDFR 11224034
                                  20872+*          REARRANGES PARTITION PRIORITIES BY SHIFTING         *@D34UDFR 11232034
                                  20873+*          PARTITIONS ENTRIES WITHIN THE COORESPONDING         *@D34UDFR 11250034
                                  20874+*          DISPATCHING FIELD (MVCFLD).CHAINS PARTITION         *@D34UDFR 11258034
                                  20875+*          CONTROL BLOCKS (PCB) IN ASCENDING PRIORITY ORDER    *@D34UDFR 11266034
                                  20876+*       ENTRY REGISTER:                                        *@D34UDFR 11274034
                                  20877+*          RD = BASE REGISTER                                  *@D34UDFR 11282034
                                  20878+*          RE = RETURN REGISTER                                *@D34UDFR 11300034
                                  20879+*          R3 = CURRENT PCB CHAIN POINTER USED TO SETUP NEW    *@D34UDFR 11308034
                                  20880+*               PCB CHAINS                                     *@D34UDFR 11316034
                                  20881+*             R5 = PCB POINTER OF PARTITION TO BE INSERTED NEXT*@D34UDFR 11324034
                                  20882+*                  BEHIND THE CURRENT PCB OF A NEW CHAIN      *@D34UDFR 11332034
                                  20883+*             R4 = CURRENT ENDADDRESS OF MVCFLD (TO ADDRESS FOR*@D34UDFR 11350034
                                  20884+*                  SHIFTING)                                  *@D34UDFR 11358034
                                  20885+*       EXIT REGISTER:                                         *@D34UDFR 11366034
                                  20886+*          R3 = CURRENT PCB CHAIN POINTER (LOADED WITH PREV.*@D34UDFR 11374034
                                  20887+*               CONTENT OF R5)                                *@D34UDFR 11382034
                                  20888+*                                                              *@D34UDFR 11400034
                                  20889+*****************************************************************@D34UDFR 11408034
                                  20890+*                                                               @D34UDFR 11416034
                           0EDAC  20891+UPDPRTY  EQU   *                  ENTRY AND REENTRY POINT        @D34UDFR 11424034
                           00000  20892+         USING PCBADR,R5                                        @D34UDFR 11432034
00EDAC 4880 5002           00002  20893+         LH    R8,PCBTNR         LOAD NUMBER OF TASKS           @D34UDFR 11450034
00EDB0 1B48                       20894+         SR    R4,R8             UPDATE MVCFLD DISPLACEMENT     @D34UDFR 11458034
                                  20895+         DROP  R5                                             @D34UDFR 11466034
                           00000  20896+         USING PCBADR,R3                                      @D34UDFR 11474034
00EDB2 5820 3004           00004  20897+         L     R2,PCBCHN         POINTER TO OLD PRTY OWNER      @D34UDFR 11482034
00EDB6 5050 3004           00004  20898+         ST    R5,PCBCHN         UPDATE PRTY CHAIN              @D34UDFR 11500034
00EDBA 1835                       20899+         LR    R3,R5             POINT TO NEW OWNER             @D34UDFR 11508034
00EDBC 1923                       20900+         CR    R2,R3             NO CHANGE OF OWNER             @D34UDFR 11516034
00EDBE 078E                       20901+         BCR   E,RE              YES,RETURN                     @D34UDFR 11524034
00EDC0 1B99                       20902+         SR    R9,R9             RESET SHIFTCOUNT               @D34UDFR 11532034
00EDC2 5850 3004           00004  20903+         L     R5,PCBCHN         SAVE PREVIOUS SUCCESSOR        @D34UDFR 11550034
00EDC6 5020 3004           00004  20904+         ST    R2,PCBCHN         CHAIN OLD OWNER TO NEW ONE     @D34UDFR 11558034
                                  20905+         DROP  R3                                             @D34UDFR 11566034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00000 20906+         USING PCBADR,R2                                          @D34UDFR 11574034
00EDCA 4A90 2002          00002 20907+UPDPRLP  AH    R9,PCBTNR          INCR.SHIFTCOUNT BY NUMB.TASKS@D34UDFR 11582034
00EDCE 5930 2004          00004 20908+         C     R3,PCBCHN          OLD PREDECESSOR OF PART.FOUND@D34UDFR 11600034
00EDD2 4780 D6BC  0EDDE         20909+         BE    UPDPRFND           YES,GOTO UPDATE MVCFLD       @D34UDFR 11608034
00EDD6 5820 2004          00004 20910+         L     R2,PCBCHN          LOAD NEXT PCB PTR            @D34UDFR 11616034
00EDDA 47F0 D6A8  0EDCA         20911+         B     UPDPRLP            GOTO TEST NEXT PCB           @D34UDFR 11624034
00EDDE 5050 2004          00004 20912+UPDPRFND ST    R5,PCBCHN          CLOSE THE CHAIN              @D34UDFR 11632034
00EDE2 1B49                     20913+         SR    R4,R9              PART.OLD POSITION IN MVCFLD  @D34UDFR 11650034
00EDE4 4154 8000          00000 20914+         LA    R5,D0(R4,R8)       FROM ADDRESS FOR SHIFTING    @D34UDFR 11658034
00EDE8 0680                     20915+         BCTR  R8,0               LENGTH COUNT FOR MOVE        @D34UDFR 11666034
00EDEA 4480 D6DC          0EDFE 20916+         EX    R8,UPDMVC1         SAVE FROM OLD POS.TO TEMPFLD @D34UDFR 11674034
00EDEE 0690                     20917+         BCTR  R9,0               LENGTH COUNT FOR SHIFT       @D34UDFR 11682034
00EDF0 4490 D6E2          0EE04 20918+         EX    R9,UPDMVC2         SHIFT MVCFLD TO FREE NEW POS.@D34UDFR 11700034
00EDF4 4144 9001          00001 20919+         LA    R4,D1(R4,R9)       PART.NEW POSITION IN MVCFLD  @D34UDFR 11708034
00EDF8 4480 D6E8          0EE0A 20920+         EX    R8,UPDMVC3         RESTORE TEMPFLD TO NEW POS.  @D34UDFR 11716034
00EDFC 07FE                     20921+         BR    RE                 RETURN                       @D34UDFR 11724034
00EDFE D200 0850 4000 00850 00000 20922+UPDMVC1 MVC   TEMPFLD(0),D0(R4)  SAVE FOR LATER MOVE          @D34UDFR 11732034
00EE04 D200 4000 5000 00000 00000 20923+UPDMVC2 MVC   D0(0,R4),D0(R5)    SHIFT TO GET MOVE ADDR.FREE  @D34UDFR 11750034
00EE0A D200 4000 0850 00000 00850 20924+UPDMVC3 MVC   D0(0,R4),TEMPFLD   MOVE SAVED FIELD NOW          @D34UDFR 11758034
                                20925+         DROP  R6                                               @D34UDFR 12358034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  20927+*********************************************************************** 12400034
                                  20928+*                                                              @D33PADO 12408034
                                  20929+* SVC78:   CHAP ROUTINE                                      @D33PADO 12416034
                                  20930+*                                                              @D33PADO 12424034
                                  20931+*********************************************************************** 12432034


00EE10 D500 0753 067F 00753 0067F 20933+SVC78    CLC   TIK+D1(L1),PIK+D1 . SVC FROM MAIN TASK          @D33PADO 12458034
00EE16 0786                       20934+         BER   R6 .              BRANCH IF YES                @D33PADO 12466034
00EE18 4840 0752            00752 20935+CHAPSUB1 LH    R4,TIK .          SUBTASK TIK                  @D33PADO 12474034
00EE1C 1B33                       20936+         SR    R3,R3 .                                        @D33PADO 12482034
00EE1E 4150 B5FE            015FE 20937+         LA    R5,MVCFLD .                                    @D33PADO 12500034
00EE22 4155 0001            00001 20938+CHAPSUB2 LA    R5,D1(R5) .       UPDATE MVCFLD POINTER        @D33PADO 12508034
00EE26 4335 0000            00000 20939+         IC    R3,D0(R5) .       PICK UP MVCFLD BYTE          @D33PADO 12516034
00EE2A 1934                       20940+         CR    R3,R4 .           IS IT FOR THE SUBTASK        @D33PADO 12524034
00EE2C 4770 D700      0EE22       20941+         BNE   CHAPSUB2 .        BRANCH IF NO                 @D33PADO 12532034
00EE30 9550 5001      00001       20942+CHAPSUB3 CLI   D1(R5),HPIKMT .   IS NEXT TASK THE MAIN TASK  @D33PADO 12550034
00EE34 07D6                       20943+         BNHR  R6 .              BRANCH IF MAIN TASK          @D33PADO 12558034
00EE36 4335 0001            00001 20944+         IC    R3,D1(R5) .       GET THE MVCFLD               @D33PADO 12566034
00EE3A 4235 0000            00000 20945+         STC   R3,D0(R5) .       SWITCH MVCFLD BYTES          @D33PADO 12574034
00EE3E 4245 0001            00001 20946+         STC   R4,D1(R5) .       SWITCH MVCFLD BYTES          @D33PADO 12582034
00EE42 4155 0001            00001 20947+         LA    R5,D1(R5) .       UPDATE MVCFLD POINTER        @D33PADO 12600034
00EE46 47F0 D70E      0EE30       20948+         B     CHAPSUB3 .        RETURN FOR MORE SUBTASKS     @D33PADO 12608034

                                  20950+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 12650034
                                  20951+*SVC79:  SYNCHRONOUS EXIT REQUEST                             *@D33PAGA 12658034
                                  20952+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 12666034
00EE4A 9101 0021      00021       20953+SVC79    TM    SVOLDP+D1,PPBIT   SVC ISSUED IN SUPVR STATE    @D33PAGA 12674034
00EE4E 4710 09EA      009EA       20954+         BO    ERR21             BRANCH IF NO                 @D33PAGA 12682034
00EE52 4121 0077            00077 20955+         LA    R2,D119(R1)       PTR TO END OF SAVE AREA      @D33PAGA 12708034
00EE56 4580 B2DA            012DA 20956+         BAL   R8,VALIDR2        VALIDATE SAVE AREA ADDR      @D33PAGA 12758034
00EE5A 5830 A004            00004 20957+         L     R3,PIBSAVE        PTR TO CURRENT SAVE AREA     @D33PAGA 12766034
00EE5E BE37 1001            00001 20958+         STCM  R3,M7,D1(R1)      STORE PTR IN NEW SAVE AREA   @D33PAGA 12774034
00EE62 BE17 A005            00005 20959+         STCM  R1,M7,PIBSAVE+D1  SET PTR TO NEW SAVE AREA     @D33PAGA 12782034
00EE66 4BA0 0BDE            00BDE 20960+         SH    RA,PIBDIFF        POINTER TO PIB EXTENSION     @D33PAGA 12800034
00EE6A 9604 A00F      0000F       20961+         OI    PIBFLG3,PIBSVCK   SET SYNCH SVC SCREENING     @D33PAGA 12808034
00EE6E 4AA0 0BDE            00BDE 20962+         AH    RA,PIBDIFF        POINTER TO PIB               @D33PAGA 12816034
                                  20963+*        INSURE SUPPLIED PSW IS VALID                        @D33PAGA 12824034
                            00000 20964+         USING SVEARA,R1         DEFINE BASE                  @DA10485 12832034
                                  20965+         DROP  R8                DROP STANDARD BASE           @DA10485 12850034
00EE72 D200 1008 3008 00008 00008 20966+         MVC   SVEPSW(L1),SVEPSW-SVEARA(R3) COPY FIRST BYTE   @DA10485 12858034
00EE78 91F0 1009      00009       20967+         TM    SVEPSW+D1,KEY0    CHECK KEY                    @DA10485 12866034
00EE7C 4710 D764      0EE86       20968+         BO    SVC79A            BRANCH IF KEY 15             @D33PAGA 12874034
00EE80 D200 1009 067F 00009 0067F 20969+         MVC   SVEPSW+D1(L1),PIK+D1 INSERT PART KEY          @DA10485 12882034
00EE86 960D 1009      00009       20970+SVC79A   OI    SVEPSW+D1,ECBIT+MCBIT+PPBIT                   @DA10485 12900034
00EE8A 94FD 1009      00009       20971+         NI    SVEPSW+D1,XFF-WAITBIT                         @DA10485 12908034
00EE8E 943F 100A      0000A       20972+         NI    SVEPSW+D2,CCBITS+PROGBITS                     @DA10485 12916034
00EE92 9200 100B      0000B       20973+         MVI   SVEPSW+D3,ZERO                                @DA10485 12924034
00EE96 9200 100C      0000C       20974+         MVI   SVEPSW2,ZERO                                  @DA10485 12932034
                            00000 20975+         USING SVEARA,R8         REDEFINE STANDARD BASE       @DA10485 12950034
                                  20976+         DROP  R1                DROP TEMP.BASE               @DA10485 12958034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00EE9A 07F6                      20977+         BR    R6                  RETURN                          @D33PAGA 12966034

                                 20979+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 12982034
                                 20980+*RETURN FROM SYNCHRONOUS EXIT                                        *@D33PAGA 13000034
                                 20981+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13008034
00EE9C 9204 087F      0087F      20982+RSTSYNCH MVI   RID+D1,REENTRID     REENTRANT SVC ROUTINE           @D33PAGA 13016034
00EEA0 4550 D78C            0EEAE 20983+         BAL   R5,RSTSAVE          RESET SAVE AREA PTR IN PIB      @D33PAGA 13024034
00EEA4 4830 008A            0008A 20984+         LH    R3,SVCINTC          PICK UP SVC CODE                @D33PAGA 13032034
00EEA8 4037 0006            00006 20985+         STH   R3,D6(R7)           PUT SVC CODE IN SAVE AREA       @D33PAGA 13050034
00EEAC 07F6                       20986+         BR    R6                  RETURN                          @D33PAGA 13058034

                                 20988+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13074034
                                 20989+*TURN OFF SYNCH INDICATOR AND RESET SAVE AREA POINTER                *@D33PAGA 13082034
                                 20990+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13100034
00EEAE 94FB A00F      0000F      20991+RSTSAVE  NI    PIBFLG3,XFF-PIBSVCK TURN OFF SYNCH INDICATOR        @D33PAGA 13108034
00EEB2 4AA0 0BDE            00BDE 20992+         AH    RA,PIBDIFF          POINTER TO PIB                  @D33PAGA 13116034
00EEB6 4870 067E            0067E 20993+         LH    R7,PIK              PARTITION KEY                   @D33PAGA 13124034
00EEBA 5A70 07D4            007D4 20994+         A     R7,ABBOX            POINTER TO BBOX ENTRY           @D33PAGA 13132034
                            00000 20995+         USING BBOXADR,R7                                          @D33PAGA 13150034
00EEBE 5830 7008            00008 20996+         L     R3,VIRTORP          ADDR OF SAVE AREA-VIRT MODE     @D33PAGA 13158034
00EEC2 9180 A004      00004       20997+         TM    PIBDATFL,TRAM       RUNNING IN VIRTUAL MODE         @D33PAGA 13166034
00EEC6 4710 D7AC      0EECE       20998+         BO    RSTSAVE1            BRANCH IF VIRTUAL MODE          @D33PAGA 13174034
00EECA 5830 7000            00000 20999+         L     R3,REALORP          ADDR OF SAVE AREA-REAL MODE     @D33PAGA 13182034
                                 21000+         DROP  R7                                                  @D33PAGA 13200034
00EECE 5870 A004            00004 21001+RSTSAVE1 L     R7,PIBSAVE          ADDR OF SYNCH SAVE AREA         @D33PAGA 13208034
00EED2 BE37 A005            00005 21002+         STCM  R3,M7,PIBSAVE+D1    RESTORE PTR TO TASK SAVE AREA@D33PAGA 13216034
00EED6 07F5                       21003+         BR    R5                  RETURN                          @D33PAGA 13224034


                                 21006+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13274034
                                 21007+*SVC80:  SET TASK TIMER                                              *@D33PAGA 13282034
                                 21008+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13300034
00EED8 4580 D862            0EF84 21009+SVC80    BAL   R8,TTCHECK          CHECK TIMER OWNERSHIP           @D33PAGA 13308034
                            00000 21010+         USING PCBADR,R5                                           @D34UDFR 13316034
00EEDC 1211                       21011+SVC80A   LTR   R1,R1                NEGATIVE TIME VALUE             @D33PAGA 13324034
00EEDE 4740 09EA      009EA       21012+         BM    ERR21               BRANCH IF NEGATIVE              @D33PAGA 13332034
00EEE2 5910 D7E2            0EF04 21013+         C     R1,MXTTIME          COMPARE TO MAX TIME VALUE       @D33PAGA 13350034
00EEE6 4720 09EA      009EA       21014+         BH    ERR21               BRANCH IF TOO HIGH              @D33PAGA 13358034
00EEEA 5850 0834            00834 21015+         L     R5,PCBPTR           POINTER TO PART.CONTR.BLOCK     @D34UDFR 13366034
00EEEE 9640 5000      00000       21016+         OI    PCBFLAG,OWNTIMER    TURN ON TIMER SWITCH            @D34UDFR 13374034
00EEF2 4100 03E8            003E8 21017+         LA    R0,THOUSAND         SET R0 = 1000                   @D33PAGA 13382034
00EEF6 1C00                       21018+         MR    R0,R0               CONVERT TIME TO MICRO SEC       @D33PAGA 13400034
00EEF8 8D00 000C            0000C 21019+         SLDL  R0,D12              POSITION CORRECTLY FOR TIMER    @D33PAGA 13408034
00EEFC 9001 7008            00008 21020+         STM   R0,R1,TTIME-TTTAB(R7) STORE TIME IN TTTAB           @D33PAGA 13416034
00EF00 07F6                       21021+         BR    R6                  RETURN                          @D33PAGA 13424034
00EF02 0000
00EF04 0147AE14                   21022+MXTTIME  DC    F'21474836'         MAX TIME VALUE IN MILLI SEC     @D33PAGA 13432034

                                 21024+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13458034
                                 21025+*SVC81:  TEST TASK TIMER                                             *@D33PAGA 13466034
                                 21026+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13474034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00EF08 4580 D862            0EF84 21027+SVC81    BAL   R8,TTCHECK         CHECK TIMER OWNERSHIP        @D33PAGA 13482034
00EF0C 5880 A004            00004 21028+         L     R8,PIBSAVE         POINTER TO SAVE AREA         @D33PAGA 13500034
00EF10 5850 0834            00834 21029+         L     R5,PCBPTR          POINTER TO PART.CONTR.BLOCK  @D33PAGA 13508034
00EF14 9140 5000      00000       21030+         TM    PCBFLAG,OWNTIMER   IS TIMER SET                @D34UDFR 13516034
00EF18 4780 D804      0EF26       21031+         BZ    SVC81A             BRANCH IF NOT SET            @D33PAGA 13524034
00EF1C 4827 000A            0000A 21032+         LH    R2,TTIME-TTTAB+D2(R7) FIRST PART OF TIMER VALUE @DM15820 13532034
00EF20 1222                       21033+         LTR   R2,R2              NEGATIVE VALUE               @D33PAGA 13550034
00EF22 47B0 D80A      0EF2C       21034+         BNM   SVC81B             BRANCH IF NOT NEGATIVE       @D33PAGA 13558034
00EF26 1B33                       21035+SVC81A   SR    R3,R3              RETURN VALUE = 0             @D33PAGA 13566034
00EF28 47F0 D818      0EF3A       21036+         B     SVC81C                                          @D33PAGA 13574034
00EF2C 5837 000C            0000C 21037+SVC81B   L     R3,TTIME-TTTAB+D4(R7) SECOND PART OF TIMER VALUE@DM15820 13582034
00EF30 8C20 000C            0000C 21038+         SRDL  R2,D12             TIME IN MICRO SECONDS        @DM15820 13600034
00EF34 4110 000A            0000A 21039+         LA    R1,TEN             SET R0 = 10                  @D33PAGA 13608034
00EF38 1D21                       21040+         DR    R2,R1              TIME IN 10 MICRO SEC UNITS   @D33PAGA 13616034
00EF3A 5030 802C            0002C 21041+SVC81C   ST    R3,SVER00          RETURN REMAINING TIME        @D33PAGA 13624034
00EF3E 1200                       21042+         LTR   R0,R0              CANCEL SPECIFIED             @D33PAGA 13632034
00EF40 0786                       21043+         BCR   Z,R6               GOTO EXIT IF NOT SPECIFIED   @D34UDFR 13650034
00EF42 94BF 5000      00000       21044+         NI    PCBFLAG,XFF-OWNTIMER TURN OFF TASK TIMER SWITCH @D34UDFR 13658034
00EF46 07F6                       21045+         BR    R6                 RETURN                       @D33PAGA 13666034

                                  21047+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13682034
                                  21048+*RESET TASK TIMER AT CANCEL                                    *@D33PAGA 13700034
                                  21049+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13708034
00EF48 D500 0753 07B7 00753 007B7 21050+RESTT    CLC   TIK+D1(L1),TTOWNR+D1  PARTITION OWNS TASK TIMER @D33PAGA 13716034
00EF4E 0773                       21051+         BNER  R3                 BRANCH IF NO                 @D33PAGA 13724034
00EF50 5850 0834            00834 21052+         L     R5,PCBPTR          POINTER TO PART.CONTR.BLOCK  @D34UDFR 13732034
00EF54 94BF 5000      00000       21053+         NI    PCBFLAG,XFF-OWNTIMER INSURE TIMER SWITCH IS OFF @D34UDFR 13750034
00EF58 5870 07A8            007A8 21054+         L     R7,ATTTAB          POINTER TO TTTAB             @D33PAGA 13758034
00EF5C 9200 7000      00000       21055+         MVI   D0(R7),ZERO        ZERO EXIT ADDR,              @D33PAGA 13766034
00EF60 D206 7001 7000 00001 00000 21056+         MVC   D1(L7,R7),D0(R7)   AND SAVE AREA ADDRESS        @D33PAGA 13774034
00EF66 94BF 07A8      007A8       21057+         NI    ATTTAB,XFF-TTWAIT  INSURE DELAY BIT IS OFF     @D33PAGA 13782034
00EF6A 07F3                       21058+         BR    R3                 RETURN                       @D33PAGA 13800034
                                  21059+         DROP  R5                                            @D34UDFR 13808034


                                  21061+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13866034
                                  21062+*                                                              @D33PAGA 13874034
                                  21063+*SVC 97: STORE THE ADDRESS OF THE USER'S TT ROUTINE AND SAVE   @D33PADO 13882034
                                  21064+*        AREA IN TTTAB                                         @D33PAGA 13900034
                                  21065+*                                                              @D33PAGA 13908034
                                  21066+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13916034

00EF6C 4580 D862            0EF84 21068+SVC97    BAL   R8,TTCHECK         VALIDATE TIMER OWNERSHIP     @D33PADO 13932034
00EF70 9834 7000            00000 21069+         LM    R3,R4,D0(R7)       EXIT ADDR AND SAVE AREA ADDR @D33PAGA 13950034
00EF74 47F0 D8FC      0F01E       21070+         B     COMSVCE            USE COMMON ROUT FOR STXIT    @D33PAGA 13958034

                                  21072+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 13974034
                                  21073+*                                                              @D33PAGA 13982034
                                  21074+*SVC 96: PROVIDE RETURN FROM THE USER'S TT ROUTINE TO THE      @D33PADO 14000034
                                  21075+*        INTERRUPTED PROGRAM                                   @D33PAGA 14008034
                                  21076+*                                                              @D33PAGA 14016034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  21077+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 14024034

00EF78 4580 D862            0EF84 21079+SVC96    BAL   R8,TTCHECK         VALIDATE TIMER OWNERSHIP     @D33PAGA 14050034
00EF7C 9834 7000            00000 21080+         LM    R3,R4,D0(R7)       EXIT ADDR AND SAVE AREA ADDR @D33PAGA 14058034
00EF80 47F0 D922      0F044       21081+         B     COMSVCO            USE COMMON ROUT FOR EXIT     @D33PAGA 14066034

                                  21083+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 14082034
                                  21084+* VALIDATE TASK TIMER OWNERSHIP                                    @D33PAGA 14100034
                                  21085+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PAGA 14108034

00EF84 D500 0753 07B7 00753 007B7 21087+TTCHECK  CLC   TIK+D1(L1),TTOWNR+D1  TASK OWNS THE TIMER          @D33PAGA 14124034
00EF8A 4770 09EA      009EA       21088+         BNE   ERR21              BRANCH IF NO                 @D33PAGA 14132034
00EF8E 5870 07A8            007A8 21089+         L     R7,ATTTAB          POINTER TO TTTAB             @D33PAGA 14150034
00EF92 07F8                       21090+         BR    R8                 RETURN                       @D33PAGA 14158034


                                  21092+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14200034
                                  21093+*                                                                 * 14208034
                                  21094+*SVC 16: STORE THE ADDRESS OF THE USER'S PC ROUTINE AND SAVE AREA  * 14216034
                                  21095+*        ADDRESS IN THE PC OPTION TABLE.                          * 14224034
                                  21096+*                                                                 * 14232034
                                  21097+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14250034

00EF94 4550 D882            0EFA4 21099+SVC16    BAL   R5,GETPC .         SET POINTER TO TASK'S ENTRY      D98 14266034
00EF98 47F0 D8FC      0F01E       21100+         B     COMSVCE .          USE COMMON ROUT FOR STXIT    @D33PAGA 14274034


                                  21102+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14300034
                                  21103+*                                                                 * 14308034
                                  21104+*SVC 17: PROVIDES A RETURN FROM THE USER'S PC ROUTINE TO THE PROGRAM  * 14316034
                                  21105+*        INTERRUPTED DUE TO A PROGRAM CHECK.                      * 14324034
                                  21106+*                                                                 * 14332034
                                  21107+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14350034

00EF9C 4550 D882            0EFA4 21109+SVC17    BAL   R5,GETPC .         SET POINTER TO TASK'S ENTRY      D98 14366034
00EFA0 47F0 D922      0F044       21110+         B     COMSVCO .          USE COMMON ROUT FOR EXIT     @D33PAGA 14374034


                                  21112+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14400034
                                  21113+*                                                                 * 14408034
                                  21114+*        GET PC TABLE ADDRESS.                                    * 14416034
                                  21115+*                                                                 * 14424034
                                  21116+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14432034

00EFA4 4870 06B4            006B4 21118+GETPC    LH    R7,YPCTAB .        POINT TO BEGINNING OF PC TABLE     14458034
00EFA8 47F0 D936      0F058       21119+         B     COMTABA .          USE COMMON RT TO SET PTR TO TASK  AC 14466034


                                  21121+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14482034
                                  21122+*                                                                 * 14500034
                                  21123+*        PROGRAM CHECK EXIT WHEN USER ROUTINE IS AVAILABLE.       * 14508034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  21124+*                                                                 * 14516034
                                  21125+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14524034

00EFAC 4400 B2D2           012D2 21127+PCROUT   EX    R0,COMPCLC .       PROGRAM CHECK IN LTA?              AC 14550034
00EFB0 4780 09E8      009E8      21128+         BE    ERR20 .            YES, DON'T TAKE USER EXIT          AC 14558034
00EFB4 9101 A00F      0000F      21129+         TM    PIBFLG2,ABINPR     AB ROUTINE IN PROGRESS       @D33DDJO 14574034
00EFB8 4710 09E8      009E8      21130+         BO    ERR20              YES,DON'T ENTER PC EXIT      @D33DDJO 14582034
00EFBC 9204 087F      0087F      21131+ITROUT   MVI   RID+D1,REENTRID .  INDICATE ROUT.TO BE REENTRNT       EM 14674034
00EFC0 5880 A004           00004 21132+         L     R8,PIBSAVE .       GET POINTER TO PP SAVE AREA        EM 14682034
00EFC4 4550 D946           0F068 21133+         BAL   R5,EXITSAV .       MAP PSW TO BC MODE,SAVE STATUS        14700034
00EFC8 47F0 D92A      0F04C      21134+         B     CONVERT .          SET ROUTINE IN USE                    14708034


                                  21136+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14732034
                                  21137+*                                                                 * 14750034
                                  21138+*SVC 18: STORE THE ADDRESS OF THE USER'S IT ROUTINE AND SAVE AREA  * 14758034
                                  21139+*        ADDRESS IN THE IT OPTION TABLE.                          * 14766034
                                  21140+*                                                                 * 14774034
                                  21141+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14782034

00EFCC 4550 D8C2           0EFE4 21143+SVC18    BAL   R5,SETPOIT          LOAD ADDR OF ITTAB IN REG 7       OW 14858034
00EFD0 9834 7000           00000 21144+         LM    R3,R4,D0(R7) .     LOAD ROUTINE AND SAVE AREA ADDRESS435 14874034
00EFD4 47F0 D8FC      0F01E      21145+         B     COMSVCE .          USE COMMON RT FOR SVC 16 18 20     AC 14882034


                                  21147+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14908034
                                  21148+*                                                                 * 14916034
                                  21149+*SVC 19: PROVIDE A RETURN FROM THE USER'S IT ROUTINE TO THE PROGRAM.  * 14924034
                                  21150+*                                                                 * 14932034
                                  21151+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 14950034

00EFD8 4550 D8C2           0EFE4 21153+SVC19    BAL   R5,SETPOIT          LOAD ADDR OF ITTAB IN REG 7       OW 15016034
00EFDC 9834 7000           00000 21154+         LM    R3,R4,D0(R7) .     LOAD ROUTINE AND SAVE AREA ADDRESS435 15032034
00EFE0 47F0 D922      0F044      21155+         B     COMSVCO .          USE COMMON RT FOR SVC 17 19 21     AC 15050034
                           0EFE4 21156+SETPOIT  EQU   *                                                   OW 15066034
00EFE4 4870 0752           00752 21157+         LH    R7,TIK              LOAD PIK DISPLACEMENT          OW 15074034
00EFE8 4140 0010           00010 21158+SETPOITA LA    R4,16                                              OW 15082034
00EFEC 1B74                      21159+         SR    R7,R4               SUBTRACT 16 TO GET CORRECT ENTRY OW 15100034
00EFEE 8A70 0001           00001 21160+         SRA   R7,L1               DIVIDE BY 2                    OW 15108034
00EFF2 4A70 06B6           006B6 21161+         AH    R7,YITTAB           GET CORRECT ENTRY IN ITTAB     OW 15116034
00EFF6 07F5                      21162+         BR    R5                  RETURN                         OW 15124034


                                  21164+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15174034
                                  21165+*                                                                 * 15182034
                                  21166+*SVC 20: STORE THE ADDRESS OF THE USER'S OC ROUTINE AND SAVE AREA  * 15200034
                                  21167+*        ADDRESS IN THE OC TABLE.                                 * 15208034
                                  21168+*                                                                 * 15216034
                                  21169+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15224034

00EFF8 4550 D8E6           0F008 21171+SVC20    BAL   R5,GETOC .         SET POINTER TO TASK'S ENTRY       D98 15250034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00EFFC 47F0 D8FC      0F01E       21172+         B     COMSVCE .          USE COMMON RT FOR SVC 16 18 20     AC 15258034


                                  21174+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15274034
                                  21175+*                                                                    * 15282034
                                  21176+*SVC 21: PROVIDE A RETURN FROM THE USER'S OC ROUTINE TO THE PROGRAM.  * 15300034
                                  21177+*                                                                    * 15303034
                                  21178+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15310134

00F000 4550 D8E6            0F008 21180+SVC21    BAL   R5,GETOC .         SET POINTER TO TASK'S ENTRY       D98 15333234
00F004 47F0 D922      0F044       21181+         B     COMSVCO .          USE  COMMON RT FOR SVC 17 19 21    AC 15350034


                                  21183+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15360334
                                  21184+*                                                                    * 15370234
                                  21185+*        GET THE OC TABLE ADDRESS.                                   * 15390034
                                  21186+*                                                                    * 15396034
                                  21187+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15408034

00F008 4870 06B8            006B8 21189+GETOC    LH    R7,YOCTAB .        POINT TO BEGINNING OF OC TABLE     AC 15424034
00F00C D500 0753 067F 00753 0067F 21190+         CLC   TIK+1(L1),PIK+1 .  IS THIS THE MAINTASK               AP 15516034
00F012 4770 09EA      009EA       21191+         BNE   ERR21 .            IF NOT - ILLEGAL SVC               AP 15524034
00F016 47F0 D936      0F058       21192+         B     COMTABA .          USE COMMON RT TO SET PTR TO TASK   AC 15550034


                                  21194+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D33DDJO 15582034
                                  21195+*                                                            @D33DDJO 15600034
                                  21196+*  SVC 37:  STORE THE ADDRESS OF THE USER'S AB ROUTINE       @D33DDJO 15608034
                                  21197+*                                                            @D33DDJO 15616034
                                  21198+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D33DDJO 15624034

00F01A 4550 D932            0F054 21200+SVC37    BAL   R5,GETAB           GET AB ROUTINE ADDRESS       @D33DDJO 15650034

                                  21202+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15674034
                                  21203+*                                                                    * 15682034
                                  21204+*        COMMON ROUTINE FOR SVC 16,  18,  20,  37,  97        @D33PADO 15700034
                                  21205+*                                                                    * 15708034
                                  21206+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15716034

                            0F01E 21208+COMSVCE  EQU   *                                               @D33DDJO 15732034
00F01E 9101 A00F      0000F       21209+         TM    PIBFLG2,ABINPR     AB ROUTINE IN PROGRESS       @D33DDJO 15758034
00F022 4710 09EA      009EA       21210+         BO    ERR21              YES,ILLEGAL SVC              @D33DDJO 15766034
00F026 1200                       21211+         LTR   R0,R0              BRANCH IF PARAMETERS         @D33DDJO 15782034
00F028 4780 D912      0F034       21212+         BZ    SKPVALID .         NOT SPECIFIED                         15800034
00F02C 4121 0047            00047 21213+         LA    R2,D71(R1) .       POINT R2 TO END OF SAVE AREA      313 15808034
00F030 4580 B2DA            012DA 21214+         BAL   R8,VALIDR2 .       VALIDATE SAVE AREA ADDRESS            15816034
00F034 1233                       21215+SKPVALID LTR   R3,R3 .            IS ROUTINE ACTIVE RIGHT NOW?          15824034
00F036 47B0 D91C      0F03E       21216+         BNM   STOREPC .          NO,STORE PARAMETERS                   15832034
00F03A 1300                       21217+         LCR   R0,R0 .            INVERT NEW ROUTINE ADDRESS            15850034
00F03C 1814                       21218+         LR    R1,R4 .            DON'T DESTROY SAVE AREA POINTER       15858034
00F03E 9001 7000            00000 21219+STOREPC  STM   R0,R1,D0(R7) .     SET ROUTINE AND SAVE AREA ADDRESS 435 15866034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F042 07F6                      21220+         BR    R6 .                EXIT                                    15874034

                                 21222+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15900034
                                 21223+*                                                                       * 15908034
                                 21224+*        COMMON ROUTINE FOR SVC 17, 19, 21, 96                @D33PAGA 15916034
                                 21225+*                                                                       * 15924034
                                 21226+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 15932034

00F044 5880 A004           00004 21228+COMSVCO  L     R8,PIBSAVE .        GET POINTER TO PP SAVE AREA       D98 15958034
00F048 4590 D990           0F0B2 21229+         BAL   R9,EXITRTRN .       MAP PSW BACK TO EC MODE,RETURN STATUS 15966034
00F04C 1333                      21230+CONVERT  LCR   R3,R3 .              CONVERT ROUTINE ADDRESS            AC 15974034
00F04E 5037 0000           00000 21231+         ST    R3,D0(R7) .         STORE ROUTINE ADDRESS IN PC TABLE 435 15982034
00F052 07F6                      21232+         BR    R6 .                EXIT                                    16000034

                                 21234+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16016034
                                 21235+*                                                                       * 16024034
                                 21236+*        COMMON ROUTINE TO SET POINTER TO TASK ENTRY.                   * 16032034
                                 21237+*                                                                       * 16050034
                                 21238+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16058034

00F054 5870 074C           0074C 21240+GETAB    L     R7,ABPTR .          SET POINTER TO AB TABLE           D98 16082034
                           0F058 21241+COMTABA  EQU   * .                   COMMON RT TO SET PTR TO TASK ENTRY    16108034
00F058 4880 0752           00752 21242+         LH    R8,TIK  .           GET REQUESTOR'S KEY                EM 16116034
00F05C 8880 0001           00001 21243+         SRL   R8,D1 .             PC OPTION TABLE HAS 8-BYTE ENTRIES    16158034
00F060 1A78                      21244+         AR    R7,R8 .             CALCULATE THIS TASK'S ENTRY           16166034
00F062 9834 7000           00000 21245+         LM    R3,R4,D0(R7) .      LOAD ROUTINE AND SAVE AREA ADDRESS435 16174034
00F066 07F5                      21246+         BR    R5 .                RETURN                                  16182034

                                 21248+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16208034
                                 21249+*                                                                       * 16216034
                                 21250+*        MAP PSW TO BC MODE AND SAVE THE INTERRUPT STATUS.              * 16224034
                                 21251+*                                                                       * 16232034
                                 21252+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16250034

                           00000 21254+         USING SVUARA,R4 .                                          435 16266034
00F068 D207 4000 8008 00000 00008 21255+EXITSAV  MVC   SVUPSW(L8),SVEPSW .MOVE PSW AND                     435 16274034
00F06E D223 4008 802C 00008 0002C 21256+         MVC   SVUR00(L36),SVER00 REGISTERS TO USER SAVE AREA       435 16282034
00F074 D21B 402C 8010 0002C 00010 21257+         MVC   SVUR09(L28),SVER09 IN SEQUENCE R0 TO RF(COMPATIBILITY)35 16300034
00F07A 4BA0 0BDE           00BDE 21258+         SH    RA,PIBDIFF .        PIB EXTENSION TO PICK UP INTCODE      16308034
00F07E 4390 A005           00005 21259+         IC    R9,INTINFO+1 .      GET INSTRUCTION LENGTH CODE           16316034
00F082 8990 0005           00005 21260+         SLL   R9,L5 .             MOVE TO PROPER POSITION             AM 16324034
00F086 4290 4004           00004 21261+         STC   R9,SVUPSW2 .        STORE IN USER PSW SAVE             435 16332034
00F08A D600 4004 4002 00004 00002 21262+         OC    SVUPSW2(L1),SVUPSW+2 . OR-IN CCODE AND PGMMASK       435 16350034
00F090 D201 4002 A006 00002 00006 21263+         MVC   SVUPSW+2(L2),INTINFO+2 INTERRUPTCODE TO PSWSAVE      435 16358034
00F096 BE37 800D           0000D 21264+         STCM  R3,M7,SVEPSW2+1     STORE ROUTINE ADDRESS IN PSW @DA02694 16366034
00F09A 9104 A00F      0000F      21265+         TM    PIBFLG3,PIBSVCK     TASK IN SYNCH MODE           @D33PAGA 16382034
00F09E 4780 D98A      0F0AC      21266+         BZ    EXITSAV1            BRANCH IF NO                 @D33PAGA 16400034
00F0A2 94FE 8009      00009      21267+         NI    SVEPSW+D1,XFF-PPBIT SET SUPVR STATE              @D33PAGA 16408034
00F0A6 D300 8009 067F 00009 0067F 21268+         MVZ   SVEPSW+D1(L1),PIK+D1 SET PARTITION KEY            @D33PAGA 16416034
                           0F0AC 21269+EXITSAV1 EQU   *                                                  @D33PAGA 16424034
00F0AC 4AA0 0BDE           00BDE 21270+         AH    RA,PIBDIFF .        POINT RA TO PIB                     AB 16450034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F0B0 07F5                       21271+         BR    R5 .                RETURN                                  16458034

                                  21273+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16474034
                                  21274+*                                                                           * 16482034
                                  21275+*        MAP PSW TO EC MODE AND RETURN THE INTERRUPT STATUS.                * 16500034
                                  21276+*                                                                           * 16508034
                                  21277+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 16516034

00F0B2 4BA0 0BDE            00BDE 21279+EXITRTRN SH    RA,PIBDIFF .        GET PIB EXTENSION POINTER        DT21 16532034
00F0B6 D201 A006 4002 00006 00002 21280+         MVC   INTINFO+2(L2),SVUPSW+2 RESTORE ORIGINAL INT. CODE  DT21 16550034
00F0BC 1B55                       21281+         SR    R5,R5 .             CLEAR REGISTER                   DT21 16558034
00F0BE 4350 4004            00004 21282+         IC    R5,SVUPSW2 .        RESTORE                          DT21 16566034
00F0C2 8850 0006            00006 21283+         SRL   R5,D6 .                 ORIGINAL                     DT21 16574034
00F0C6 8950 0001            00001 21284+         SLL   R5,D1 .                   ILC                        DT21 16582034
00F0CA 4250 A005            00005 21285+         STC   R5,INTINFO+1 .               IN PIB EXTENSION        DT21 16600034
00F0CE 4AA0 0BDE            00BDE 21286+         AH    RA,PIBDIFF .        GET PIB POINTER                  DT21 16608034
00F0D2 943F 4004      00004       21287+         NI    SVUPSW2,ILCMSK .    ZERO INSTR.LENGTH                 435 16616034
00F0D6 D200 800A 4004 0000A 00004 21288+         MVC   SVEPSW+D2(L1),SVUPSW2 RESTORE CCODE AND PGMMSK        435 16624034
00F0DC D700 4004 4004 00004 00004 21289+         XC    SVUPSW2(L1),SVUPSW2 . ZERO HIGH ORDER BYTE IN ADDRESS435 16632034
00F0E2 D203 800C 4004 0000C 00004 21290+         MVC   SVEPSW2,SVUPSW2 .   RESTORE PSW AND REGISTERS        435 16650034
00F0E8 D21B 8010 402C 00010 0002C 21291+         MVC   SVER09(L28),SVUR09  AND REGISTERS TO USER SAVE AREA  435 16658034
00F0EE D223 802C 4008 0002C 00008 21292+         MVC   SVER00(L36),SVUR00  IN SEQUENCE R9 TO R8             435 16666034
00F0F4 07F9                       21293+         BR    R9 .                RETURN                                  16674034
                            00000 21294+         USING CHQADR,R4 .         DECLARE STANDARD USING                  16682034

                                  21296+          DROP  RD                      .                          @D34XDJO 16716034
                                  21297+*                                                                  @D348DEM 00030034
                                  21298+*       SUPERVISOR - SGXECB - 5745-SC-SUP - REL. 34.0              @D348DEM 00050034
                                  21299+*                                                                  @D348DEM 00058034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F0F6 07FC                      21301+SGXECB   BR    RC               BRANCH TO SVC ROUTINE          @D34RDFG 00232034
                          0F0F6  21302+         USING SGXECB,RD        COMMON BASE WITHIN SGXECB      @D34RDFG 00250034
                          00000  21303+         USING PIBADR,RA                                       @D34RDJO 00258034
                          00000  21304+         USING SVEARA,R8                                       @DM14636 00266034
                                 21305+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * @D34XDJO 00274034
                                 21306+*   CROSS PARTITION COMMUNICATION MACROS.                       @D34XDJO 00282034

                                 21308+*   THREE SVC'S ARE AVAILABLE TO SUPPORT THE XECB MACROS:       @D34XDJO 00308034
                                 21309+*   SVC 92:   XECBTAB                                           @D34XDJO 00316034
                                 21310+*   SVC 93    XPOST                                             @D34XDJO 00324034
                                 21311+*   SVC 94    XWAIT                                             @D34XDJO 00332034
                                 21312+*                                                               @D34XDJO 00350034
                                 21313+*   GATING CONVENTION:                                          @D34XDJO 00358034
                                 21314+*   THE XECB SVC'S ARE GATED TO AVOID SIMULTANEOUS UPDATE       @D34XDJO 00366034
                                 21315+*   OF THE SUPERVISOR XECB TABLE.                               @D34XDJO 00374034
                                 21316+*   IF THE GATE IS CLOSED, CONTROL IS TRANSFERED TO THE         @D34XDJO 00382034
                                 21317+*   ROUTINE GATEWAIT, TO REISSUE THE SVC.                       @D34XDJO 00400034
                                 21318+*                                                               @D34XDJO 00408034
                                 21319+*   REGISTER CONVENTIONS:                                       @D34XDJO 00416034
                                 21320+*   R0       NOT USED                                           @D34XDJO 00424034
                                 21321+*   R1       PARAMETER REGISTER                                 @D34XDJO 00432034
                                 21322+*   R2       WORK REGISTER                                      @D34XDJO 00450034
                                 21323+*   R3       WORK REGISTER                                      @D34XDJO 00458034
                                 21324+*   R4       WORK REGISTER                                      @D34XDJO 00466034
                                 21325+*   R5       WORK REGISTER                                      @D34XDJO 00474034
                                 21326+*   R6       EXIT ADDRESS TO DISPATCHER                         @D34XDJO 00482034
                                 21327+*   R7       LINK REG TO COMMON SUBROUTINE OF SVC' 93 AND 94.   @D34XDJO 00500034
                                 21328+*   R8       LINK REGISTER TO VALIDATION ROUTINE                @D34XDJO 00508034
                                 21329+*   R9       LINK REGISTER TO SUBROUTINES                       @D34XDJO 00516034
                                 21330+*   RA       PIB ADDRESS                                        @D34XDJO 00524034
                                 21331+*   RB       SUPERVISOR BASE ADDRESS                            @D34XDJO 00532034
                                 21332+*   RC       WORK REGISTER                                      @D34XDJO 00550034
                                 21333+*   RD       BASE REGISTER OF SVC'S 92, 93, 94.                 @D34XDJO 00558034
                                 21334+*   RE       ADDRESS OF XECBTAB ENTRY, RETURN REGISTER          @D34XDJO 00566034
                                 21335+*   RF       RETURN REGISTER                                    @D34XDJO 00574034
                                 21336+*                                                               @D34XDJO 00582034
                                 21337+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * @D34XDJO 00600034
                                 21338+*                                                               @D34XDJO 00608034
                          00000  21339+         USING XECBDSEC,RE   XECB TABLE DUMMY SECTION          @D34XDJO 00616034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  21341+*                                                                  @D34XDJO 00632034
                                  21342+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 00650034
                                  21343+*   SVC 92: XECB TABLE MANIPULATION                                 @D34XDJO 00658034
                                  21344+*           DEFINE, DELETE, DELETALL, CHECK, RESET.                @D34XDJO 00666034
                                  21345+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 00674034
                                  21346+*                                                                  @D34XDJO 00682034
00F0F8 4121 000B           0000B 21347+SVC92     LA    R2,D11(R1)      END OF PARAMETER LIST              @D34XDJO 00700034
00F0FC 4580 B2D2           012D2 21348+          BAL   R8,VALID        VALIDATE PARAMETER LIST            @D34XDJO 00708034
00F100 927F 087F      0087F      21349+          MVI   RID+D1,G92BND   SET ROUTINE SVC92 BOUND            @D34XDJO 00716034
00F104 9583 0965      00965      21350+          CLI   TRTG92,READY    IS GATE OPEN                       @D34XDJO 00724034
00F108 4770 B002      01002      21351+          BNE   GATEWAIT        NO, REISSUE SVC                    @D34XDJO 00732034
00F10C 9548 1008      00008      21352+          CLI   D8(R1),XDELTALL TYPE EQ DELETALL                   @D34XDJO 00750034
00F110 4780 D0FE      0F1F4      21353+          BE    SVC92DLA        YES                                @D34XDJO 00758034
00F114 4590 D28A           0F380 21354+          BAL   R9,FNDLOOP      SCAN SUPERVISOR XECB TABLE .       @D34XDJO 00766034
00F118 18C1                      21355+          LR    RC,R1           ADDRESS PARAMETER LIST BY RC       @D34XDJO 00774034
00F11A 1B11                      21356+          SR    R1,R1           DEFAULT RETURN INFO IS ZERO        @D34XDJO 00782034
00F11C 9180 C008      00008      21357+          TM    D8(RC),XCHECK   CHECK                              @D34XDJO 00800034
00F120 4710 D1BE      0F2B4      21358+          BO    SVC92CH         YES                                @D34XDJO 00808034
00F124 9150 C008      00008      21359+          TM    D8(RC),XDELETE+XRESET                              @D34XDJO 00816034
00F128 4740 D0BE      0F1B4      21360+          BM    SVC92DL                                            @D34XDJO 00824034
00F12C 9509 C008      00008      21361+          CLI   D8(RC),XPOSTER ACCESS=XPOST                        @D34XDJO 00832034
00F130 4780 D046      0F13C      21362+          BE    SVC92AA         YES                                @D34XDJO 00850034
00F134 9506 C008      00008      21363+          CLI   D8(RC),XWAITER ACCESS=XWAIT                        @D34XDJO 00858034
00F138 4770 09EA      009EA      21364+          BNE   ERR21           ILLEGAL SVC                        @D34XDJO 00866034
                                  21365+*                                                                  @D34XDJO 00874034
                                  21366+*   XECBTAB TYPE=DEFINE                                            @D34XDJO 00882034
                                  21367+*                                                                  @D34XDJO 00900034
00F13C 12FF                      21368+SVC92AA   LTR   RF,RF           ENTRY FOUND IN XECB TABLE          @D34XDJO 00908034
00F13E 4780 D0AC      0F1A2      21369+          BZ    SVC92FD1        YES,ERROR                          @D34XDJO 00916034
00F142 4840 D334           0F42A 21370+          LH    R4,XECBUSL      NUMBER OF USED SLOTS  .            @D34XDJO 00924034
00F146 4940 D332           0F428 21371+          CH    R4,XECBGSL      NUMBER OF AVAILABLE SLOTS .        @D34XDJO 00932034
00F14A 47B0 D0B4      0F1AA      21372+          BNL   SVC92RC8        ALL SLOTS IN USE           .       @D34XDJO 00950034
                                  21373+*   VALIDATE USER SPECIFIED XECB                         .         @D34XDJO 00958034
00F14E BF17 C009           00009 21374+          ICM   R1,M7,D9(RC)    XECB ADDRESS                .      @D34XDJO 00966034
00F152 4121 0003           00003 21375+          LA    R2,D3(R1)       END ADDRESS OF XECB                @D34XDJO 00974034
00F156 4580 B2D2           012D2 21376+          BAL   R8,VALID        VALIDATE XECB (R1,R2)              @D34XDJO 00982034
                                  21377+*   FIND A FREE SLOT IN XECB TABLE.                                @D34XDJO 01000034
00F15A 58E0 D336           0F42C 21378+          L     RE,XECBSLOT     POINT OF FIRST XECB ENTRY          @D34XDJO 01008034
00F15E 47F0 D070      0F166      21379+          B     SVC92B                                             @D34XDJO 01016034
00F162 41EE 0010           00010 21380+SVC92A    LA    RE,XECBLENG(RE) POINT TO NEXT ENTRY                @D34XDJO 01024034
00F166 9180 E008      00008      21381+SVC92B    TM    XECBTYPE,XINUSE XECBTAB ENTRY IN USE               @D34XDJO 01032034
00F16A 4710 D06C      0F162      21382+          BO    SVC92A          YES,TRY NEXT ENTRY                 @D34XDJO 01050034
                                  21383+*   BUILD NEW XECB TABLE ENTRY                                     @D34XDJO 01058034
00F16E 4BA0 0BDE           00BDE 21384+          SH    RA,PIBDIFF    POINT TO PIB EXTENSION               @D34XDJO 01066034
00F172 9601 A00F      0000F      21385+          OI    PIBFLG3,PIBXECB  TASK HAS XECB USAGE               @D34XDJO 01074034
00F176 4AA0 0BDE           00BDE 21386+          AH    RA,PIBDIFF    POINT BACK TO PIB                    @D34XDJO 01082034
00F17A D20B E000 C000 00000 00000 21387+          MVC   XECBNAME(L12),D0(RC) MOVE CONTENTS OF USER'S       @D34XDJO 01100034
                                  21388+*                           PARAMETER LIST                         @D34XDJO 01108034
00F180 9680 E008      00008      21389+          OI    XECBTYPE,XINUSE SET ENTRY IN USE                   @D34XDJO 01116034
00F184 D201 E00C 0752 0000C 00752 21390+          MVC   XECBOWNR(L2),TIK                                   @D34XDJO 01124034
00F18A 4144 0001           00001 21391+          LA    R4,D1(R4)       INCREASE USE COUNT                 @D34XDJO 01132034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F18E 4040 D334            0F42A 21392+          STH   R4,XECBUSL      SAVE USE COUNT                 @D34XDJO 01150034
00F192 1BFF                       21393+SVC92OK   SR    RF,RF           RETURN CODE EQ ZERO            @D34XDJO 01158034
                                  21394+*                                                              @D34XDJO 01166034
00F194 5880 A004            00004 21395+SVC92EX   L     R8,PIBSAVE      ADDRESS OF USER SAVE AREA      @D34XDJO 01174034
00F198 90EF 8024            00024 21396+          STM   RE,RF,SVER0E    STORE RETURN INFO TO S.A.      @D34XDJO 01182034
00F19C 5010 8030            00030 21397+          ST    R1,SVER01       STORE RETURN INFO INTO S.A.    @D34XDJO 01200034
00F1A0 07F6                       21398+          BR    R6              EXIT TO DISPATCHER             @D34XDJO 01208034
                                  21399+*                                                              @D34XDJO 01216034
00F1A2 41F0 0004            00004 21400+SVC92FD1  LA    RF,4            RETURN CODE                    @D34XDJO 01224034
00F1A6 47F0 D0B8      0F1AE       21401+          B     SVC92FD2                                       @D34XDJO 01232034
                                  21402+*                                                              @D34XDJO 01250034
00F1AA 41F0 0008            00008 21403+SVC92RC8  LA    RF,8            RETURN CODE                    @D34XDJO 01258034
00F1AE 1BEE                       21404+SVC92FD2  SR    RE,RE           CLEAR PARAMETER REG            @D34XDJO 01266034
00F1B0 47F0 D09E      0F194       21405+          B     SVC92EX         BACK TO DISPATCHER             @D34XDJO 01274034
                                  21406+*                                                              @D34XDJO 01282034
                                  21407+*   XECBTAB  TYPE=DELETE/RESET                                 @D34XDJO 01300034
                                  21408+*                                                              @D34XDJO 01308034
                            0F1B4 21409+SVC92DL   EQU   *                                              @D34XDJO 01316034
00F1B4 12FF                       21410+          LTR   RF,RF           ENTRY IN XECB TAB FOUND        @D34XDJO 01324034
00F1B6 4770 D09E      0F194       21411+          BNZ   SVC92EX         NO,RETURN WITH RC=4            @D34XDJO 01332034
00F1BA D501 E00C 0752 0000C 00752 21412+          CLC   XECBOWNR(L2),TIK  IS THIS TASK THE OWNER       @D34XDJO 01350034
00F1C0 4770 D0B4      0F1AA       21413+          BNE   SVC92RC8        NO,RETURN WITH RC=8            @D34XDJO 01358034
00F1C4 4590 D2BC            0F3B2 21414+          BAL   R9,POSTSUB1    WAKE UP WAITING TASKS          @D34XDJO 01366034
00F1C8 9140 C008      00008       21415+          TM    D8(RC),XDELETE  TYPE=DELETE                    @D34XDJO 01374034
00F1CC 4710 D0E8      0F1DE       21416+          BO    SVC92NRM        YES                            @D34XDJO 01382034
00F1D0 D701 E00E E00E 0000E 0000E 21417+          XC    XECBWPTK(L2),XECBWPTK CLEAR COMMUNICATION FIELD@D34XDJO 01400034
00F1D6 94BF E008      00008       21418+          NI    XECBTYPE,XFF-XABNORM  RESET ABNORMAL TERM FLAG  @D34XDJO 01408034
00F1DA 47F0 D0F8      0F1EE       21419+          B     SVC92RE                                        @D34XDJO 01416034
00F1DE D70F E000 E000 00000 00000 21420+SVC92NRM  XC    XECBNAME(XECBLENG),XECBNAME CLEAR TABLE ENTRY  @D34XDJO 01424034
00F1E4 4850 D334            0F42A 21421+          LH    R5,XECBUSL      REDUCE USE COUNT               @D34XDJO 01432034
00F1E8 0650                       21422+          BCTR  R5,0            BY ONE                         @D34XDJO 01450034
00F1EA 4050 D334            0F42A 21423+          STH   R5,XECBUSL      SAVE XECB TABLE USE COUNT      @D34XDJO 01458034
00F1EE 1BEE                       21424+SVC92RE   SR    RE,RE           RETURN INFO TO USER SAVE AREA  @D34XDJO 01466034
00F1F0 47F0 D09C      0F192       21425+          B     SVC92OK                                        @D34XDJO 01474034


                                  21427+*                                                              @D34XDJO 01500034
                                  21428+*   XECBTAB  TYPE=DELETALL                                     @D34XDJO 01508034
                                  21429+*                                                              @D34XDJO 01516034
                            0F1F4 21430+SVC92DLA  EQU   *                 TYPE=DELETALL                @D34XDJO 01524034
00F1F4 4820 D334            0F42A 21431+          LH    R2,XECBUSL      NUMBER OF USED SLOTS           @D34XDJO 01532034
00F1F8 1222                       21432+          LTR   R2,R2           AT LEAST ONE SLOT USED         @D34XDJO 01550034
00F1FA 4780 D1B0      0F2A6       21433+          BZ    SVC92DLB        NO, EXIT TO DISPATCHER         @D34XDJO 01558034
00F1FE 4830 D332            0F428 21434+          LH    R3,XECBGSL      TOTAL NUMBER OF TABLE SLOTS    @D34XDJO 01566034
00F202 58E0 D336            0F42C 21435+          L     RE,XECBSLOT     POINT TO FIRST XECB TAB ENTRY  @D34XDJO 01574034
00F206 D501 E00C 0752 0000C 00752 21436+XTTIK     CLC   XECBOWNR(L2),TIK  IS THIS TASK OWNER           @D34XDJO 01582034
00F20C 4770 D132      0F228       21437+          BNE   XTTWP           NO                             @D34XDJO 01600034
00F210 4590 D2AC            0F3A2 21438+          BAL   R9,POSTSUB      WAKE UP WAITING TASK           @D34XDJO 01608034
00F214 D70F E000 E000 00000 00000 21439+          XC    XECBNAME(XECBLENG),XECBNAME CLEAR ENTRY        @D34XDJO 01616034
00F21A 4820 D334            0F42A 21440+          LH    R2,XECBUSL      NUMBER OF USED SLOTS           @D34XDJO 01624034
00F21E 0620                       21441+          BCTR  R2,0            REDUCE BY ONE                  @D34XDJO 01632034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F220 4020 D334            0F42A 21442+          STH   R2,XECBUSL      STORE BACK                      @D34XDJO 01650034
00F224 47F0 D1A8      0F29E       21443+          B     XTNXT           PROCESS NEXT TABLE ENTRY        @D34XDJO 01658034
                                  21444+*   ISSUING TASK IS NOT OWNER OF XECB                           @D34XDJO 01666034
                            0F228 21445+XTTWP     EQU   *                                             @D34XDJO 01674034
00F228 48C0 E00C            0000C 21446+          LH    RC,XECBOWNR     TIK OF OWNER                    @D34XDJO 01682034
00F22C 4AC0 06AA            006AA 21447+          AH    RC,YPIBTAB      START OF PIB TABLE              @D34XDJO 01700034
00F230 BF5F 0754            00754 21448+          ICM   R5,M15,APOWTB   IS POWER ACTIVE                 @D34XDJO 01716034
00F234 4780 D17C      0F272       21449+          BZ    XNOPOW          BRANCH IF NO                    @D34XDJO 01724034
00F238 59C5 016C            0016C 21450+          C     RC,CAPB-PADS(R5) IS IT POWERS PIB               @D34XDJO 01732034
00F23C 4770 D17C      0F272       21451+          BNE   XNOPOW          BRANCH IF NOT                   @D34XDJO 01750034
00F240 D500 5190 0753 00190 00753 21452+          CLC   IPIK-PADS(L1,R5),TIK+D1  COMMUNICATING WITH P   @D34XDJO 01758034
00F246 4780 D15E      0F254       21453+          BE    XRPOW           YES                             @D34XDJO 01766034
00F24A D500 5198 0753 00198 00753 21454+          CLC   SPIK-PADS(L1,R5),TIK+D1  COMMUNIC. WITH PWER    @D34XDJO 01774034
00F250 4770 D17C      0F272       21455+          BNE   XNOPOW          NO                              @D34XDJO 01782034
00F254 9680 5152      00152       21456+XRPOW     OI    PAEB-PADS+D2(R5),TRABIT POST MASTER ECB         @D34XDJO 01800034
00F258 BF47 E009            00009 21457+          ICM   R4,M7,XECBADDR  GET XECB ADDRESS                @D34XDJO 01808034
00F25C 9680 4002      00002       21458+          OI    D2(R4),TRABIT   POST XECB                       @D34XDJO 01816034
00F260 9601 C000      00000       21459+          OI    PIBFLG-PIBADR(RC),IOCMPL  POST POWERS PIB       @D34XDJO 01824034
00F264 D501 E00E 0752 0000E 00752 21460+          CLC   XECBWPTK,TIK    IS ISSUING TASK COMMUNICATOR    @D34XDJO 01832034
00F26A 4770 D1A8      0F29E       21461+          BNE   XTNXT           NEXT XECB TAB ENTRY             @D34XDJO 01850034
00F26E 47F0 D1A2      0F298       21462+          B     XRESETC                                         @D34XDJO 01858034
                                  21463+*                                                             @D34XDJO 01874034
00F272 D501 E00E 0752 0000E 00752 21464+XNOPOW    CLC   XECBWPTK,TIK    IS ISSUING TASK COMMUNICATOR    @D34XDJO 01882034
00F278 4770 D1A8      0F29E       21465+          BNE   XTNXT           NO,TRY NEXT TABLE ENTRY         @D34XDJO 01900034
00F27C 9106 E008      00008       21466+          TM    XECBTYPE,XWAITER IS OWNER EQ WAITER             @D34XDJO 01908034
00F280 47E0 D1A2      0F298       21467+          BNO   XRESETC         IF NO, BRANCH                   @D34XDJO 01916034
00F284 BF17 E009            00009 21468+          ICM   R1,M7,XECBADDR  ADDRESS OF XECB                 @D34XDJO 01924034
00F288 9180 1002      00002       21469+          TM    2(R1),TRABIT    XECB ALREADY POSTED             @D34XDJO 01932034
00F28C 4710 D1A2      0F298       21470+          BO    XRESETC         YES, NO ACTION REQUIRED         @D34XDJO 01950034
00F290 9640 E008      00008       21471+          OI    XECBTYPE,XABNORM XPOSTER TERMINATED             @D34XDJO 01958034
00F294 9601 C000      00000       21472+          OI    PIBFLG-PIBADR(RC),IOCMPL  POST TASK READY       @D34XDJO 01966034
00F298 D701 E00E E00E 0000E 0000E 21473+XRESETC   XC    XECBWPTK,XECBWPTK CLEAR COMMUNICATION FIELD     @D34XDJO 01974034
00F29E 41EE 0010            00010 21474+XTNXT     LA    RE,XECBLENG(RE) POINT TO NEXT TABLE ENTRY       @D34XDJO 01982034
00F2A2 4630 D110            0F206 21475+          BCT   R3,XTTIK       LOOP THRU XECB TABLE             @D34XDJO 02000034
00F2A6 4BA0 0BDE            00BDE 21476+SVC92DLB  SH    RA,PIBDIFF      POINT TO PIB EXTENSION          @D34XDJO 02008034
00F2AA 94FE A00F      0000F       21477+          NI    PIBFLG3,XFF-PIBXECB  XECB USAGE TERMINATED      @D34XDJO 02016034
00F2AE 4AA0 0BDE            00BDE 21478+          AH    RA,PIBDIFF      POINT BACK TO PIB               @D34XDJO 02024034
00F2B2 07F6                       21479+          BR    R6              EXIT TO DISPATCHER              @D34XDJO 02032034
                                  21480+*                                                             @D34XDJO 02050034
                                  21481+*   XECBTAB  TYPE=CHECK                                       @D34XDJO 02058034
                                  21482+*                                                             @D34XDJO 02066034
                            0F2B4 21483+SVC92CH   EQU   *                                             @D34XDJO 02074034
00F2B4 12FF                       21484+          LTR   RF,RF            ENTRY FOUND IN TABLE         @D34XDJO 02082034
00F2B6 4770 D09E      0F194       21485+          BNZ   SVC92EX          NO, RC=4                     @D34XDJO 02100034
00F2BA BF17 E009            00009 21486+          ICM   R1,M7,XECBADDR  RETURN XECB ADDRESS TO USER     @D34XDJO 02108034
00F2BE 47F0 D09E      0F194       21487+          B     SVC92EX                                         @D34XDJO 02116034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 21489+*                                                                  @D34XDJO 02132034
                                 21490+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 02150034
                                 21491+*   SVC 93:   XPOST                                                @D34XDJO 02158034
                                 21492+*   POST THE CROSS PARTITION ECB                                   @D34XDJO 02166034
                                 21493+*   THIS SVC ROUTINE LOOKS FOR AN XECB NAME IN THE XECB TABLE.     @D34XDJO 02174034
                                 21494+*   IF AN ENTRY IS FOUND, IT POSTS THE XECB                        @D34XDJO 02182034
                                 21495+*   AND POSTS THE WAITING TASK READY TO RUN.                       @D34XDJO 02200034
                                 21496+*   REGISTERS ON ENTRY:                                            @D34XDJO 02208034
                                 21497+*   R1: START ADDRESS OF PARAMETER LIST                            @D34XDJO 02216034
                                 21498+*   WORK REGISTERS:                                                @D34XDJO 02224034
                                 21499+*   R7: LINKREG TO SV9394                                          @D34XDJO 02232034
                                 21500+*   R9: LINKREG TO XECCHK AND POSTSUB.                             @D34XDJO 02250034
                                 21501+*   RF: INTERNAL PARAMETER REGISTER                                @D34XDJO 02258034
                                 21502+*   REGISTERS ON EXIT                                              @D34XDJO 02266034
                                 21503+*   R1,RE : ZERO                                                   @D34XDJO 02274034
                                 21504+*   RF: RETURN CODE                                                @D34XDJO 02282034
                                 21505+*       0:   SUCCESSFUL COMPLETION                                 @D34XDJO 02300034
                                 21506+*       4:   XECB TABLE ENTRY NOT FOUND                            @D34XDJO 02308034
                                 21507+*       8:   COMMUNICATION TASK TERMINATED WITHOUT XPOSTING        @D34XDJO 02316034
                                 21508+*       D,E: TASK NOT AUTHORIZED                                   @D34XDJO 02324034
                                 21509+*                                                                  @D34XDJO 02332034
                          0F2C2 21510+SVC93     EQU   *                                                  @D34XDJO 02350034
00F2C2 4570 D23E          0F334 21511+          BAL   R7,SV9394       COMMON SUBROUT. FOR 93 AND 94      @D34XDJO 02358034
00F2C6 43F0 E008          00008 21512+          IC    RF,XECBTYPE     GET SPECIFIED TYPE                 @D34XDJO 02366034
00F2CA 4590 D2E4          0F3DA 21513+          BAL   R9,XECCHK       CHECK AUTHORIZATION                @D34XDJO 02374034
00F2CE 12FF                     21514+          LTR   RF,RF           IF NOT SUCCESSFUL, RETURN          @D34XDJO 02382034
00F2D0 4770 D27A      0F370     21515+          BNZ   SV9394B                                            @D34XDJO 02400034
00F2D4 94BF E008      00008     21516+          NI    XECBTYPE,XFF-XABNORM  RESET ABNORMAL TERM FLAG     @D34XDJO 02408034
00F2D8 1B11                     21517+          SR    R1,R1                                              @D34XDJO 02416034
00F2DA BF17 E009          00009 21518+          ICM   R1,M7,XECBADDR  ADDRESS OF XECB                    @D34XDJO 02424034
00F2DE 9680 1002      00002     21519+          OI    2(R1),TRABIT    POST XECB                          @D34XDJO 02432034
00F2E2 4590 D2AC          0F3A2 21520+          BAL   R9,POSTSUB      AWAKE WAITING TASKS                @D34XDJO 02450034
00F2E6 47F0 D27A      0F370     21521+          B     SV9394B                                            @D34XDJO 02458034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  21523+*                                                                  @D34XDJO 02474034
                                  21524+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 02482034
                                  21525+*   SVC 94:  XWAIT.                                                @D34XDJO 02500034
                                  21526+*                                                                  @D34XDJO 02508034
                                  21527+*   WAIT FOR A CROSS PARTITION ECB.                                @D34XDJO 02516034
                                  21528+*   IF THE XECB IS POSTED ALREADY, PROCESSING RESUMES WITH         @D34XDJO 02524034
                                  21529+*   THE NEXT SEQUENTIAL INSTRUCTION.                               @D34XDJO 02532034
                                  21530+*   IF THE XECB IS NOT YET POSTED, THE TASK WAITS FOR              @D34XDJO 02550034
                                  21531+*   THE XECB TO BE POSTED.                                         @D34XDJO 02558034
                                  21532+*   PROCESSING RESUMES WITH A REISSUE SVC.                         @D34XDJO 02566034
                                  21533+*   REGISTER CONVENTION: SAME AS SVC93                             @D34XDJO 02574034
                                  21534+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 02582034
                            0F2EA 21535+SVC94     EQU   *                                                  @D34XDJO 02600034
00F2EA 4570 D23E            0F334 21536+          BAL   R7,SV9394       COMMON SUBROUTINE OF SVC93/94      @D34XDJO 02608034
00F2EE 43F0 E008            00008 21537+          IC    RF,XECBTYPE     GET ACCESS TYPE                    @D34XDJO 02616034
00F2F2 88F0 0002            00002 21538+          SRL   RF,2            ADJUST                             @D34XDJO 02624034
00F2F6 4590 D2E4            0F3DA 21539+          BAL   R9,XECCHK       CHECK AUTHORIZATION                @D34XDJO 02632034
00F2FA 12FF                       21540+          LTR   RF,RF           WAS TASK AUTHORIZED                @D34XDJO 02650034
00F2FC 4770 D27A      0F370       21541+          BNZ   SV9394B         NO, RETURN ERROR INFO              @D34XDJO 02658034
00F300 BF17 E009            00009 21542+          ICM   R1,M7,XECBADDR  XECB ADDRESS                       @D34XDJO 02666034
00F304 9180 1002      00002       21543+          TM    2(R1),TRABIT    TRAFFIC BIT ALREADY POSTED         @D34XDJO 02674034
00F308 4710 D27A      0F370       21544+          BO    SV9394B         YES, RETURN TO USER                @D34XDJO 02682034
00F30C 9140 E008      00008       21545+          TM    XECBTYPE,XABNORM XPOSTER HAS TERMINATED            @D34XDJO 02700034
00F310 47E0 D22E      0F324       21546+          BNO   XCONT           NO, REISSUE SVC                    @D34XDJO 02708034
00F314 41F0 0008            00008 21547+          LA    RF,8            RC=8, COMMUNICATION BROKEN         @D34XDJO 02716034
00F318 94BF E008      00008       21548+          NI    XECBTYPE,XFF-XABNORM  RESET                        @D34XDJO 02724034
00F31C 9680 1002      00002       21549+          OI    2(R1),TRABIT    WAKE UP TASK                       @D34XDJO 02732034
00F320 47F0 D27A      0F370       21550+          B     SV9394B         RETURN TO USER                     @D34XDJO 02750034
00F324 50E0 8024            00024 21551+XCONT     ST    RE,SVER0E       SAVE XECB TABLE SLOT               @D34XDJO 02758034
00F328 4130 0000            00000 21552+          LA    R3,0            PREPARE FOR UPDATE                 @D34XDJO 02766034
00F32C 4140 0082            00082 21553+          LA    R4,IOBND                                           @D34XDJO 02774034
00F330 47F0 0FE6      00FE6       21554+          B     UPADD           REISSUE SVC                        @D34XDJO 02782034
                                  21555+*                                                                  @D34XDJO 02800034
                                  21556+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 02808034
                                  21557+*   CROSS PARTITION ECB.  SUBROUTINES                              @D34XDJO 02816034
                                  21558+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 02824034
                                  21559+*                                                                  @D34XDJO 02832034


                                  21561+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 02858034
                                  21562+*   SV9394:  COMMON SUBROUTINE FOR SVC93 AND SVC94.                @D34XDJO 02866034
                                  21563+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 02874034
00F334 4121 0007            00007 21564+SV9394    LA    R2,D7(R1)       END OF PARAMETER LIST              @D34XDJO 02882034
00F338 4580 B2D2            012D2 21565+          BAL   R8,VALID        VALIDATE USER'S PARAMETER LIST     @D34XDJO 02900034
00F33C 927F 087F      0087F       21566+          MVI   RID+D1,G92BND   GATING THE XECB TABLE              @D34XDJO 02908034
00F340 9583 0965      00965       21567+          CLI   TRTG92,READY    IS THE GATE OPEN                   @D34XDJO 02916034
00F344 4770 B002      01002       21568+          BNE   GATEWAIT        NO, WAIT FOR THE GATE              @D34XDJO 02924034
00F348 5880 A004            00004 21569+          L     R8,PIBSAVE      USER SAVE AREA ADDRESS             @D34XDJO 02932034
00F34C 58E0 8024            00024 21570+          L     RE,SVER0E       XECB ENTRY ADDRESS FROM USER       @D34XDJO 02950034
00F350 59E0 D336            0F42C 21571+          C     RE,XECBSLOT     OUTSIDE ALLOWED RANGE              @D34XDJO 02958034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F354 4740 D272      0F368       21572+          BL    SV9394A         YES, SCAN XECB TABLE           @D34XDJO 02966034
00F358 59E0 D33A            0F430 21573+          C     RE,XECBEND      OUTSIDE ALLOWED RANGE          @D34XDJO 02974034
00F35C 47B0 D272      0F368       21574+          BNL   SV9394A         YES, SCAN XECB TABLE           @D34XDJO 02982034
00F360 D507 1000 E000 00000 00000 21575+          CLC   D0(L8,R1),XECBNAME NAME IN TABLE               @D34XDJO 03000034
00F366 0787                       21576+          BER   R7              YES, RETURN ENTRY FOUND        @D34XDJO 03008034
00F368 4590 D28A            0F380 21577+SV9394A   BAL   R9,FNDLOOP      SCAN XECB TABLE                @D34XDJO 03016034
00F36C 12FF                       21578+          LTR   RF,RF           DID WE FIND AN XECB TAB ENTRY  @D34XDJO 03024034
00F36E 0787                       21579+          BZR   R7              YES, RETURN TO SVC93 OR SVC94  @D34XDJO 03032034
00F370 50F0 8028            00028 21580+SV9394B   ST    RF,SVER0F       STORE RETURN CODE TO S.A.      @D34XDJO 03050034
00F374 1BFF                       21581+          SR    RF,RF           ON RETURN FROM XWAIT OR XPOST  @D34XDJO 03058034
00F376 50F0 8030            00030 21582+          ST    RF,SVER01       REGISTER 1                     @D34XDJO 03066034
00F37A 50F0 8024            00024 21583+          ST    RF,SVER0E       AND REGISTER 14 ARE ZERO       @D34XDJO 03074034
00F37E 07F6                       21584+          BR    R6              EXIT TO DISPATCHER             @D34XDJO 03082034



                                  21586+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 03108034
                                  21587+*   FNDLOOP SUBROUTINE                                           @D34XDJO 03116034
                                  21588+*   THIS ROUTINE SCANS THE XECB TABLE FOR AN ENTRY WITH          @D34XDJO 03124034
                                  21589+*   A GIVEN XECB NAME.                                           @D34XDJO 03132034



                                  21591+*   REGISTERS ON ENTRY:                                          @D34XDJO 03158034
                                  21592+*   R1: ADDRESS OF USERS PARAMETER LIST                          @D34XDJO 03166034
                                  21593+*   R9: LINK ADDRESS                                             @D34XDJO 03174034

                                  21595+*   WORK REGISTER: R5                                            @D34XDJO 03200034

                                  21597+*   REGISTERS ON EXIT                                            @D34XDJO 03216034
                                  21598+*   RE: XECBTAB ENTRY ADDRESS OR ZERO                            @D34XDJO 03224034
                                  21599+*   RF: RETURN CODE:                                             @D34XDJO 03232034
                                  21600+*       RC=0: ENTRY FOUND IN TABLE                               @D34XDJO 03250034
                                  21601+*       RC=4: ENTRY NOT FOUND IN TABLE                           @D34XDJO 03258034
                                  21602+*                                                                @D34XDJO 03266034
                                  21603+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 03274034
                            0F380 21604+FNDLOOP   EQU   *                                                @D34XDJO 03282034
00F380 58E0 D336            0F42C 21605+          L     RE,XECBSLOT     BEGIN ADDRESS OF XECB TABLE    @D34XDJO 03300034
00F384 4850 D332            0F428 21606+          LH    R5,XECBGSL      NUMBER OF TABLE ENTRIES        @D34XDJO 03308034
00F388 17FF                       21607+          XR    RF,RF           ASSUME EVERYTHING O.K.         @D34XDJO 03316034
00F38A D507 E000 1000 00000 00000 21608+COMLOOP   CLC   XECBNAME,0(R1)  TABLE ENTRY EQ SEARCH ARG      @D34XDJO 03324034
00F390 0789                       21609+          BER   R9              YES, RETURN TO CALLER          @D34XDJO 03332034
00F392 41EE 0010            00010 21610+          LA    RE,XECBLENG(RE) POINT TO NEXT TABLE ENTRY      @D34XDJO 03350034
00F396 4650 D294            0F38A 21611+          BCT   R5,COMLOOP      LOOP AROUND                    @D34XDJO 03358034
00F39A 41F0 0004            00004 21612+          LA    RF,4            RC=4, ENTRY NOT FOUND          @D34XDJO 03366034
00F39E 17EE                       21613+          XR    RE,RE           NO ENTRY ADDRESS TO BE RETURNED@D34XDJO 03374034
00F3A0 07F9                       21614+          BR    R9                                             @D34XDJO 03382034
                                  21615+*                                                              @D34XDJO 03400034



                                  21617+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 03416034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  21618+*   POSTSUB SUBROUTINE.                                                  @D34XDJO 03424034
                                  21619+*   THIS ROUTINE CHECKS WHETHER THERE IS A TASK WAITING                  @D34XDJO 03432034
                                  21620+*   FOR AN XECB.                                                         @D34XDJO 03450034
                                  21621+*   IF IT FINDS A WAITING TASK, IT POSTS THIS TASK'S                     @D34XDJO 03458034
                                  21622+*   PIB READY TO RUN.                                                    @D34XDJO 03466034
                                  21623+*   REGISTERS ON ENTRY:                                                  @D34XDJO 03474034
                                  21624+*   R9: LINK ADDRESS                                                     @D34XDJO 03482034
                                  21625+*   RE: ADDRESS OF XECB TABLE ENTRY                                      @D34XDJO 03500034
                                  21626+*   WORK REGISTERS: R2,R5                                                @D34XDJO 03508034
                                  21627+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 03516034
                                  21628+*                                                                        @D34XDJO 03524034
                                  21629+*   ENTRY FROM TYPE=DELETALL/XPOST                                        @D34XDJO 03532034
                            0F3A2 21630+POSTSUB  EQU   *   .                                                    @D34XDJO 03550034
00F3A2 9109 E008      00008       21631+         TM    XECBTYPE,XPOSTER  IS OWNER EQ POSTER .                 @D34XDJO 03558034
00F3A6 4710 D2C2      0F3B8       21632+         BO    INNLOOP           YES, FIND THE WAITING TASK.          @D34XDJO 03566034
00F3AA 4850 E00C            0000C 21633+         LH    R5,XECBOWNR       GET OWNER'S TIK/PIK                  @D34XDJO 03574034
00F3AE 47F0 D2CA      0F3C0       21634+         B     INNBUMP                                                @D34XDJO 03582034
                                  21635+*   ENTRY FROM DELETE/RESET                                              @D34XDJO 03600034
                            0F3B2 21636+POSTSUB1 EQU   *                                                        @D34XDJO 03608034
00F3B2 9109 E008      00008       21637+         TM    XECBTYPE,XPOSTER  IS OWNER EQ POSTER                   @D34XDJO 03616034
00F3B6 07E9                       21638+         BNOR  R9                NO, RETURN TO CALLER                 @D34XDJO 03624034
00F3B8 4850 E00E            0000E 21639+INNLOOP  LH    R5,XECBWPTK       GET WAITERS TIK/PIK                  @D34XDJO 03632034
00F3BC 1255                       21640+         LTR   R5,R5             IS THERE A WAITER                    @D34XDJO 03650034
00F3BE 0789                       21641+         BCR   Z,R9              NO,RETURN TO CALLER                  @D34XDJO 03658034
00F3C0 4A50 06AA            006AA 21642+INNBUMP  AH    R5,YPIBTAB        BEGIN ADDRESS OF PIB TABLE           @D34XDJO 03666034
00F3C4 9601 5000      00000       21643+         OI    PIBFLG-PIBADR(R5),IOCMPL POST WAITER READY             @D34XDJO 03674034
00F3C8 BF2F 0754            00754 21644+         ICM   R2,M15,APOWTB     LOOK FOR POWER                       @D34XDJO 03700034
00F3CC 0789                       21645+         BER   R9                RETURN IF POWER IS NOT ACTIVE        @D34XDJO 03708034
00F3CE 5952 016C            0016C 21646+         C     R5,CAPB-PADS(R2)  IS IT POWER PARTITION                @D34XDJO 03716034
00F3D2 0779                       21647+         BNER  R9                IF NO, RETURN                        @D34XDJO 03724034
00F3D4 9680 2152      00152       21648+         OI    PAEB-PADS+2(R2),TRABIT POST POWER READY TO RUN         @D34XDJO 03732034
00F3D8 07F9                       21649+         BR    R9                RETURN TO CALLER                     @D34XDJO 03758034
                                  21650+*                                                                        @D34XDJO 03766034
                                  21651+*                                                                        @D34XDJO 03774034
                                  21652+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 03782034
                                  21653+*   XECCHK: SUBROUTINE TO CHECK AUTHORIZATION.                          @D34XDJO 03800034


                                  21655+*   THIS ROUTINE IS ENTERED FROM XWAIT AND FROM XPOST                    @D34XDJO 03816034
                                  21656+*   IT IS CHECKED, WHETHER THE ISSUING TASK IS AUTHORIZED                @D34XDJO 03824034
                                  21657+*   TO ISSUE XWAIT OR XPOST.                                             @D34XDJO 03832034
                                  21658+*   REGISTERS ON ENTRY:                                                  @D34XDJO 03850034
                                  21659+*   R9: LINK REGISTER                                                    @D34XDJO 03858034
                                  21660+*   RF: ACCESS TYPE PARAMETER REGISTER                                   @D34XDJO 03866034
                                  21661+*   WORK REGISTERS:                                                      @D34XDJO 03874034
                                  21662+*   R2 AND R5                                                            @D34XDJO 03882034
                                  21663+*   REGISTERS ON EXIT:                                                   @D34XDJO 03900034
                                  21664+*   RF: RETURN INFO                                                      @D34XDJO 03908034
                                  21665+*      RF=0             TASK IS AUTHORIZED                             @D34XDJO 03916034
                                  21666+*      RF= X'D' OR X'E' TASK IS NOT AUTHORIZED                         @D34XDJO 03924034
                                  21667+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 03932034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0F3DA 21668+XECCHK    EQU   *                .                                  @D34XDJO 03950034
00F3DA 54F0 D33E           0F434 21669+          N     RF,XEMASK        REMOVE ALL BUT 2 BITS              @D34XDJO 03958034
00F3DE 4820 0752           00752 21670+          LH    R2,TIK           GET TASK ID OF ISSUING TASK        @D34XDJO 03966034
00F3E2 49F0 D342           0F438 21671+          CH    RF,XECTYP        IS OWNER ALLOWED                   @D34XDJO 03974034
00F3E6 4780 D312      0F408      21672+          BE    XCHK1            GO CHECK TASK ID                   @D34XDJO 03982034
00F3EA 4920 E00C           0000C 21673+          CH    R2,XECBOWNR      THIS TASK OWNER                    @D34XDJO 04000034
00F3EE 4780 D30C      0F402      21674+          BE    XCHKRJ           YES, REJECT                        @D34XDJO 04008034
00F3F2 9500 E00F      0000F      21675+          CLI   XECBWPTK+1,0     COMMUNICATING TASK ENTERED         @D34XDJO 04016034
00F3F6 4780 D31E      0F414      21676+          BE    XCEX1            NO, STORE TASK ID                  @D34XDJO 04024034
00F3FA 4920 E00E           0000E 21677+          CH    R2,XECBWPTK      WAS IT THIS TASK BEFORE            @D34XDJO 04032034
00F3FE 4780 D32E      0F424      21678+          BE    XCEXIT           IF YES, EXIT                       @D34XDJO 04050034
00F402 41FF 000C           0000C 21679+XCHKRJ    LA    RF,12(RF)        SEVERE ERROR                       @D34XDJO 04058034
00F406 07F9                      21680+          BR    R9                                                  @D34XDJO 04066034
                                 21681+*                                                                   @D34XDJO 04074034
00F408 4920 E00C           0000C 21682+XCHK1     CH    R2,XECBOWNR      IS THIS TASK OWNER                 @D34XDJO 04082034
00F40C 4770 D30C      0F402      21683+          BNE   XCHKRJ           NO, REJECT                         @D34XDJO 04100034
00F410 47F0 D32E      0F424      21684+          B     XCEXIT           ELSE RETURN                        @D34XDJO 04108034

00F414 4020 E00E           0000E 21686+XCEX1     STH   R2,XECBWPTK      STORE COMMUNICATING TASK ID        @D34XDJO 04124034
00F418 4BA0 0BDE           00BDE 21687+          SH    RA,PIBDIFF       POINT TO PIB EXTENSION             @D34XDJO 04132034
00F41C 9601 A00F      0000F      21688+          OI    PIBFLG3,PIBXECB   TASK USES XECB TABLE             @D34XDJO 04150034
00F420 4AA0 0BDE           00BDE 21689+          AH    RA,PIBDIFF       POINT BACK TO PIB                  @D34XDJO 04158034
00F424 1BFF                      21690+XCEXIT     SR    RF,RF            RETURN CODE ZERO  O.K.             @D34XDJO 04166034
00F426 07F9                      21691+          BR    R9               RETURN TO CALLER                   @D34XDJO 04174034
                                 21692+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 04182034
                                 21693+*   XECB -  EQUATES AND CONSTANTS.                                  @D34XDJO 04200034
                                 21694+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D34XDJO 04208034
                                 21695+*                                                                   @D34XDJO 04216034
                           00080 21696+XCHECK   EQU   X'80'               TYPE=CHECK                      @D34XDJO 04224034
                           00048 21697+XDELTALL EQU   X'48'               TYPE=DELETALL                   @D34XDJO 04232034
                           00040 21698+XDELETE  EQU   X'40'               TYPE=DELETE                     @D34XDJO 04250034
                           00010 21699+XRESET   EQU   X'10'               TYPE=RESET                      @D34XDJO 04258034
                           00080 21700+XINUSE   EQU   X'80'                                               @D34XDJO 04266034
                           00040 21701+XABNORM  EQU   X'40'                                               @D34XDJO 04274034
                           00006 21702+XWAITER  EQU   X'06'                                               @D34XDJO 04282034
                           00009 21703+XPOSTER  EQU   X'09'                                               @D34XDJO 04300034
                                 21704+*                                                                   @D34XDJO 04308034
00F428 0014                      21705+XECBGSL   DC    H'20'                                .             @D34XDJO 04316034
00F42A 0000                      21706+XECBUSL   DC    H'0'             NUMBERS OF SLOTS IN USE .         @D34XDJO 04324034
00F42C 00013358                  21707+XECBSLOT  DC    A(XECBTAB)       BEGIN OF XECB TABLE               @D34XDJO 04332034
00F430 00013498                  21708+XECBEND   DC    A(XECBTEND)      END ADDRESS OF XECB TABLE         @D34XDJO 04350034
00F434 00000003                  21709+XEMASK    DC    F'3'             REMOVE ALL BUT 2 BITS             @D34XDJO 04358034
00F438 0001                      21710+XECTYP    DC    H'1'                                               @D34XDJO 04366034
                                 21711+          DROP  RE                                                 @D34XDJO 04374034
                                 21712+          DROP  RD                    .                            @D34XDJO 04400034


                                 21714+* SUPERVISOR -  SGRM  - 5745-SC-SUP - REL. 34.0                    @D34ADEM 01650034
00F43A 07FC                      21715+SGRM      BR    RC                  BRANCH TO SVC ROUTINE          @D34RDFG 02250034
                           0F43A 21716+          USING SGRM,RD             COMMON BASE WITHIN SGRM        @D34RDFG 02300034
                           00000 21717+          USING SVEARA,R8                                          @DM14636 15200034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  21719+*************************************************************************** 15400034
                                  21720+*        ENQ MACRO ROUTINE                                                * 15450034
                                  21721+*************************************************************************** 15500034

                            00000 21723+         USING RCBADR,R1                                                   15600034
00F43C 4570 D072            0F4AC 21724+SVC42    BAL   R7,ENQDEQ .        VALIDATE RCB AND GET TASKS ECB           15650034
00F440 9300 1000      00000       21725+         TS    RCBQUE .           IS RESOURCE AVAILABLE                    15700034
00F444 4770 D016      0F450       21726+         BNZ   SVC42A .           IF NOT - DETERMINE OWNER                 15750034
00F448 BE37 1005            00005 21727+         STCM  R3,M7,RCBECB .     PUT TASKS ECB ADDRESS IN RCB             15800034
                            05E18 21728+         USING DISP,R6                                          @DM05356 15850034
00F44C 47F0 607A      05E92       21729+         B     SAMETASK .         RETURN TO ENQING TASK                    15900034
                                  21730+         DROP  R6                                               @DM05356 15950034
00F450 1B22                       21731+SVC42A   SR    R2,R2 .            RESET HIGH ORDER BYTE                 FR 16000034
00F452 BF27 1005            00005 21732+         ICM   R2,M7,RCBECB .     GET OWNER ECB ADDRESS FROM RCB        FR 16050034
00F456 4780 D026      0F460       21733+         BZ    SVC42B .           MUST BE MAINTASK                     367 16100034
00F45A 9180 2002      00002       21734+         TM    D2(R2),TRABIT .    HAS OWNER TERMINATED                     16150034
                            0F45E 21735+PCKSVC42 EQU   *                   PROGRAM CHECH IF R2 INVALID  @DA11215 16170034
00F45E 0718                       21736+         BOR   R8                 IF SO - ILLEGAL SVC          @DA11215 16200034
00F460 1923                       21737+SVC42B   CR    R2,R3 .            IS OWNER ENQUEUEING                  367 16250034
00F462 0788                       21738+         BER   R8                 IF SO - ILLEGAL SVC          @DA11215 16300034
00F464 9680 1004      00004       21739+         OI    RCBFLG,WANTBIT .   INDICATE RESOURCE WANTED                 16350034
00F468 9282 A000      00000       21740+         MVI   PIBFLG,IOBND .     PUT ENQING TASK IN WAIT STATE            16400034
00F46C 5880 A004            00004 21741+         L     R8,PIBSAVE .       GET SAVE AREA ADDR OF ENQING TASK        16450034
00F470 5020 8030            00030 21742+         ST    R2,SVER01 .        PUT OWNER ECB ADDR IN ENQING TASKS R1 16500034
                                  21743+*                                  TO PREVENT DEADLOCK IN CASE THE OWNER 16550034
                                  21744+*                                  TERMINATES WITHOUT DEQING THE RSC        16600034
00F474 47F0 0FD6      00FD6       21745+         B     RESVCNOX .         SET UP TO REDRIVE THE SVC    @DM01394 16650034

                                  21747+*************************************************************************** 16750034
                                  21748+*        DEQ MACRO ROUTINE                                                * 16800034
                                  21749+*************************************************************************** 16850034

00F478 4570 D072            0F4AC 21751+SVC41    BAL   R7,ENQDEQ .        VALIDATE RCB AND GET TASKS ECB           16950034
00F47C 5820 1004            00004 21752+         L     R2,RCBECB-D1 .     GET OWNER ECB ADDRESS FROM RCB        FR 17000034
00F480 4122 0000            00000 21753+         LA    R2,0(R2) .         RESET HIGH ORDER BYTE                 FR 17050034
00F484 1923                       21754+         CR    R2,R3 .            IS OWNER DEQUEUEING                      17100034
00F486 4780 D05A      0F494       21755+         BE    SVC41A .           IF SO - OK                               17350034
00F48A 9101 A00F      0000F       21756+         TM    PIBFLG2,ABINPR .   IS DEQ IN AB ROUTINE                     17400034
                            05E18 21757+         USING DISP,R6                                          @DM05356 17450034
00F48E 4710 607A      05E92       21758+         BO    SAMETASK .         IF SO - IGNORE THE DEQ                   17500034
                                  21759+         DROP  R6                                               @DM05356 17550034
00F492 07F8                       21760+         BR    R8 .               IF NOT - ILLEGAL SVC                     17600034
                            0F494 21761+SVC41A   EQU *                                                             17650034
00F494 9200 1000      00000       21762+         MVI   RCBQUE,ZERO .      RESET TS BYTE IN RCB                     17750034
00F498 9180 1004      00004       21763+         TM    RCBFLG,WANTBIT .   RESOURCE WANTED BY A TASK                17800034
                            05E18 21764+         USING DISP,R6                                          @DM05356 17850034
00F49C 4780 607A      05E92       21765+         BZ    SAMETASK .         IF NOT - RETURN TO DEQING TASK           17900034
                                  21766+         DROP R6                                                @DM05356 17950034
00F4A0 947F 1004      00004       21767+         NI    RCBFLG,UNPOST1 .   TURN OFF WANTBIT IN RCB      @DA01532 18000034
00F4A4 58D0 0894            00894 21768+         L     RD,APBASE          SET SGAP BASE                @D34RDFG 18050034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          0E722 21769+         USING SGAP,RD                                          @D34RDFG 18100034
00F4A8 47F0 D5F2      0ED14       21770+         B     UNWTDQ1          REMOVE WANTERS FROM WAIT     @DM15969 18150034
                          0F43A 21771+         USING SGRM,RD                                          @D34RDFG 18250034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  21773+*************************************************************************** 18700034
                                  21774+*        SUBROUTINE FOR ENQ AND DEQ                                     * 18750034
                                  21775+*************************************************************************** 18800034

                                  21777+* R0 CONTAINS RCB ADDRESS UPON ENTRY                                      18900034

00F4AC 1810                       21779+ENQDEQ   LR    R1,R0 .             POINT R1 TO FIRST BYTE OF RCB          19000034
00F4AE 4121 0007            00007 21780+         LA    R2,RCBLNG(R1) .     POINT R2 TO LAST BYTE OF RCB           19050034
00F4B2 4580 B2D2            012D2 21781+         BAL   R8,VALID .          VALIDATE RCB ADDRESS                   19100034
00F4B6 9269 087F      0087F       21782+         MVI   RID+D1,G41BND .     IDENTIFY GATED ROUTINE TO PMGR     FR 19150034
00F4BA 9583 094F      0094F       21783+         CLI   TRTG41,READY .      ROUTINE IN USE                     FR 19200034
00F4BE 4770 B002      01002       21784+         BNE   GATEWAIT .          SET TASK INTO WAIT STATE           FR 19250034
00F4C2 4180 09EA            009EA 21785+         LA    R8,ERR21 .          SET UP ERROR EXIT                      19300034
00F4C6 183A                       21786+         LR    R3,RA .             COPY TASKS PIB POINTER                 19350034
00F4C8 4B30 0BDE            00BDE 21787+         SH    R3,PIBDIFF .        POINT TO TASKS PIB EXTENSION           19400034
00F4CC BF3F 3008            00008 21788+         ICM   R3,M15,D8(R3) .     PICK UP ECB ADDRESS                    19450034
00F4D0 0777                       21789+         BCR   NZ,R7 .             RETURN TO MAINLINE IF PRESENT          19500034
00F4D2 D501 0752 067E 00752 0067E 21790+         CLC   TIK,PIK .           IS THIS THE MAINTASK                   19550034
00F4D8 0778                       21791+         BCR   NE,R8 .             NO - A SUBTASK MUST HAVE AN ECB        19600034
00F4DA 07F7                       21792+         BR    R7 .                RETURN TO MAINLINE                     19650034
                            00000 21793+         USING CCBADR,R1                                                  19700034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 21796+*********************************************************************BSW 19950034
                                 21797+*                                                                    BSW 20000034
                                 21798+*        RESOURCE CONTROL ROUTINES -                                 BSW 20050034
                                 21799+*                                                                    BSW 20100034
                                 21800+*        U S E   A N D   R E L E A S E                               BSW 20150034
                                 21801+*                                                                    BSW 20200034
                                 21802+*        REGISTER USAGE:                                             BSW 20250034
                                 21803+*           R0 - 1ST OWNER BIT OF REQUESTING TASK (USE,RELEASE)@DF00913 20300034
                                 21804+*              - BOTH OWNER BITS (RELEASE)                     @DF00913 20350034
                                 21805+*           R1 - CURRENT POSITION IN PARAMETER LIST                 BSW 20400034
                                 21806+*           R2 - ADDRESS OF CURRENT RUR                             BSW 20450034
                                 21807+*           R3 - ADDR OF PARAM 'NAME FIELD' (USE,RELEASE)      @D31DCAZ 20500034
                                 21808+*              - RESOURCE CODE/ADDR OF DEP. RUR (USE,RELEASE)  @D31DCAZ 20550034
                                 21809+*           R4 - 2ND OWNER BIT, IF REQUESTING TASK IS A        @DF00913 20600034
                                 21810+*                MAINTASK; FOR SUBTASKS THIS REGISTER IS = 0.  @DF00913 20650034
                                 21811+*              - WORK REGISTER (USE)                           @DF00913 20700034
                                 21812+*           R5 - START ADDRESS OF WAIT LIST                         BSW 20750034
                                 21813+*           R6 - EXIT ADDR (NORMALLY ADDR OF TASK SELECTION ROUTINE)BSW 20800034
                                 21814+*           R7 - WORK REGISTER                                      BSW 20850034
                                 21815+*           R8 - WORK REGISTER                                      BSW 20900034
                                 21816+*           R9 - WORK REGISTER                                 @D31DCAZ 20950034
                                 21817+*           RA - ADDRESS OF REQUESTING TASK'S PIB (USE,RELEASE)     BSW 21000034
                                 21818+*              - WORK REGISTER (RELEASE)                            BSW 21050034
                                 21819+*           RB - SUPERVISOR BASE REGISTER                      @D34RDFG 21100034
                                 21820+*           RD - COMMON SGRM BASE REGISTER                     @D34RDFG 21150034
                                 21821+*           RE - BASE REGISTER                                 @D31DCAZ 21200034
                                 21822+*           RF - SUBROUTINE LINKAGE                                 BSW 21250034
                                 21823+*                                                                    BSW 21300034
                                 21824+*        ATTRIBUTES:  DISABLED                                 @D31DCAZ 21350034
                                 21825+*                                                                    BSW 21400034
                                 21826+*********************************************************************BSW 21450034


                         00000 21828+         USING USEPARM,R1 .                                          BSW 21550034
                         00000 21829+         USING RURADR,R2 .                                           BSW 21600034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 21831+*-------------------------------------------------------------------BSW 21700034
                                 21832+*                                                                    BSW 21750034
                                 21833+*       U S E   ( S V C   6 3 )                                      BSW 21800034
                                 21834+*                                                                    BSW 21850034
                                 21835+*       ENTRY POINT:  SVC63CTD FROM SVC63                  @D31DCAZ 21900034
                                 21836+*                                                                    BSW 21950034
                                 21837+*       INPUT:        R1 (LOADED FROM 'SVER01' IN REQUESTOR'S      BSW 22000034
                                 21838+*                        SAVE AREA) POINTS TO A PARAMETER LIST OF  BSW 22050034
                                 21839+*                        THE FORMAT DESCRIBED BY DSECT 'USEPARM';  BSW 22100034
                                 21840+*                        R1 SHOULD NOT BE 0 OR NEGATIVE;      @DF00913 22150034
                                 21841+*                     R3 (LOADED FROM 'SVER00' IN REQUESTOR'S @D31DCAZ 22200034
                                 21842+*                        SAVE AREA) POINTS TO A PARAMETER    @D31DCAZ 22250034
                                 21843+*                        'NAME FIELD' (8 BYTES);             @D31DCAZ 22300034
                                 21844+*                                                                    BSW 22350034
                                 21845+*                     R6,RA,RB,RC,RD,RE (SEE 'REGISTER USAGE'),    BSW 22400034
                                 21846+*                     FIELDS  PIK, TIK (IF AP=YES), ARURTAB,  @DF00913 22450034
                                 21847+*                             ANRUR, AS2RUR, AWAITL, RURTAB,  @D31DCAZ 22500034
                                 21848+*                             PIBSAVE,NRURLU,NRESMF           @D31DCAZ 22550034
                                 21849+*                                                                    BSW 22600034
                                 21850+*       OUTPUT:       IF ALL REQUESTED RESOURCES ARE AVAILABLE -   BSW 22650034
                                 21851+*                     PROPERLY UPDATED RUR TABLE,                  BSW 22700034
                                 21852+*                     R0 CONTAINS A RETURN CODE OF 0,              BSW 22750034
                                 21853+*                     R1 POINTS TO 1ST BYTE BEHIND PARAMETER LIST; BSW 22800034
                                 21854+*                                                                    BSW 22850034
                                 21855+*                     ELSE -                                       BSW 22900034
                                 21856+*                     RUR TABLE UPDATED FOR ALL RESOURCES THAT     BSW 22950034
                                 21857+*                        HAVE BEEN ALLOCATED,                      BSW 23000034
                                 21858+*                                                                    BSW 23050034
                                 21859+*                     AND IF NO ERROR IS FOUND -                   BSW 23100034
                                 21860+*                     R0 CONTAINS A RETURN CODE:           @D31DCAZ 23150034
                                 21861+*                        4 RESOURCE OWNED BY OTHER TASK    @D31DCAZ 23200034
                                 21862+*                          OR POOL OF NAMED RURS EXHAUSTED @D31DCAZ 23250034
                                 21863+*                        8 RESOURCE OWNED BY REQUESTING    @D31DCAZ 23300034
                                 21864+*                          TASK, SAME SHARE OPTION         @D31DCAZ 23350034
                                 21865+*                       12 RESOURCE OWNED BY REQUESTING    @D31DCAZ 23400034
                                 21866+*                          TASK, DIFFERENT SHARE OPTION    @D31DCAZ 23450034
                                 21867+*                       16 DEADLOCK                        @D31DCAZ 23500034
                                 21868+*                     R1 POINTS TO THE PARAMETER LIST ENTRY THAT   BSW 23550034
                                 21869+*                        REQUESTED AN UNAVAILABLE RESOURCE (ANY    BSW 23600034
                                 21870+*                        FURTHER ENTRIES HAVE NOT BEEN PROCESSED), BSW 23650034
                                 21871+*                                                                    BSW 23700034
                                 21872+*                     AND IF FAIL=WAIT IS SPECIFIED FOR THAT RES - BSW 23750034
                                 21873+*                     REQUESTING TASK'S WAIT LIST ENTRY UPDATED,   BSW 23800034
                                 21874+*                     PIB-FLAG SET TO 'IOBND' (X'82'),             BSW 23850034
                                 21875+*                     PSW (IN 'SVEPSW2') MODIFIED TO RE-EXECUTE    BSW 23900034
                                 21876+*                        THE FAILING REQUEST.                      BSW 23950034
                                 21877+*                                                                    BSW 24000034
                                 21878+*                     NOTE: R0 AND R1 ARE ALSO STORED IN THE       BSW 24050034
                                 21879+*                           REQUESTOR'S SAVE AREA.                   BSW 24100034
                                 21880+*                                                                    BSW 24150034
                                 21881+*       SUBROUTINES:  SVC6364V, VALIDSVA; SVC6364R; GETADD  @D31DCAZ 24200034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  21882+*                     SVC6364Y,SVC63S1,SVC63S2                @D31DCAZ 24250034
                                  21883+*                                                                   BSW 24300034
                                  21884+*        EXITS:       TO ADDRESS IN R6 - NORMAL CASE               BSW 24350034
                                  21885+*                     TO ERR25 - INVALID PARAMETER LIST LIMITS     BSW 24400034
                                  21886+*                     TO ERR21 - INVALID PARM LIST FORMAT   O R    BSW 24450034
                                  21887+*                                INVALID RESOURCE CODE   O R  @DF00913 24500034
                                  21888+*                                SUBTASK ISSUED 'USE ...,JC'  @DF00913 24550034
                                  21889+*                     TO ERR2E - POSSIBLE DEADLOCK                Z0795 24600034
                                  21890+*                                                                   BSW 24650034
                                  21891+*-------------------------------------------------------------------BSW 24700034


00F4DC                            21893+SVC63CTD DS    0H       .                                        @D34RDJO 24770034
00F4DC 45F0 D28A            0F6C4 21894+SVC63    BAL   RF,SVC6364V .      VALID.PARM LIST ADDR & FORMAT@DM01647 24800034
                                  21895+*                                    IF VALID, SET UP R0,R4,R5,@D31DCAZ 24850034
                                  21896+*                                    IF APPROP. SET UP R3      @D31DCAZ 24900034
                                  21897+*                                    ELSE CANCEL (ERR25 OR ERR21)   BSW 24950034

                                  21899+*   PROCESS REQUESTOR'S PARAMETER LIST                              BSW 25050034
                                  21900+*   - COMPUTE CURRENT RUR ADDRESS                                   BSW 25100034
00F4E0 45F0 D306            0F740 21901+SVC63C   BAL   RF,SVC6364R .      CONVERT RES CODE FROM CURRENT     BSW 25150034
                                  21902+*                                    PARM LIST ENTRY TO RUR ADDRESS BSW 25200034
00F4E4 47F0 D150      0F58A       21903+         B     SVC63C1            RESOURCE CODE NOT FOUND      @D31DCAZ 25450034
                                  21904+*   - TEST IF REQUESTED RESOURCE CAN BE ALLOCATED                   BSW 25550034
                            0F4E8 21905+SVC63CA  EQU   *                                                 @D31DCAZ 25650034
00F4E8 4180 0003            00003 21906+         LA    R8,USES+USEE       GET MASK FOR USEFLAGS        @DM03106 25750034
00F4EC 4370 1001            00001 21907+         IC    R7,USEFLAGS .      GET USERFLAGS AND ZERO       @DM03106 25800034
00F4F0 1478                       21908+         NR    R7,R8              ALL IRRELEVANT BITS          @DM03106 25850034
00F4F2 4380 2000            00000 21909+         IC    R8,RURFLAGS        GET CURRENT RUR FLAGS        @DM03106 25900034
00F4F6 1487                       21910+         NR    R8,R7 .            CAN THIS RES BE ALLOCATED TO REQ? BSW 25950034
00F4F8 8970 0019            00019 21911+         SLL   R7,L24+L1          SHIFT FLAGS IN POSITION      @D31DCAZ 26000034
                                  21912+*   - SHIFT TO HIGH ORDER BYTE, THEN SHIFT ONE POSITION        @D31DCAZ 26050034
                                  21913+*     MORE, TO CHANGE USEE/USES INTO RURE/RURS RESPECTIVELY    @D31DCAZ 26100034
00F4FC 4770 D0F8      0F532       21914+         BNZ   SVC63F .           NO - RETURN TO USER OR WAIT       BSW 26150034
                                  21915+*   - RESOURCE IS AVAILABLE; SET OWNER BIT(S) AND ACCESS FLAGS @DF00913 26200034
00F500 1880                       21916+         LR    R8,R0 .            OWNER BIT FOR NORMAL USE REQ @DF00913 26250034
00F502 9140 1001      00001       21917+         TM    USEFLAGS,USEJ      'USE...,JC' REQUEST          @DM03106 26300034
00F506 47E0 D0D8      0F512       21918+         BNO   SVC63D             NO-NORMAL REQUEST            @DM03106 26350034
00F50A 1244                       21919+         LTR   R4,R4 .            ISSUED BY MAIN TASK          @DF00913 26450034
00F50C 4780 09EA      009EA       21920+         BZ    ERR21 .            NO-CANCEL (ILLEGAL SVC)      @DF00913 26500034
00F510 1684                       21921+         OR    R8,R4 .            YES-2 OWNER BITS REQIRED     @DF00913 26600034
                            0F512 21922+SVC63D   EQU   *                                                 @D31DCAZ 26650034
00F512 1678                       21923+         OR    R7,R8 .            SET REQ'S OWNER BIT(S) ON    @DF00913 26700034
00F514 5670 2000            00000 21924+         O     R7,RUR .           ADD FORMER CONTENTS OF CURR RUR   BSW 26750034
00F518 5070 2000            00000 21925+         ST    R7,RUR .           STORE UPDATED RUR                 BSW 26800034
00F51C 9601 2000      00000       21926+         OI    RURFLAGS,RURX .    SET X-BIT IN RUR             @DF00913 26850034
                                  21927+*   - NEXT PARAMETER IF ANY                                         BSW 26900034
00F520 9500 1000      00000       21928+SVC63E   CLI   USELISTL,ZERO .    END OF PARAMETER LIST ?           BSW 26950034
00F524 4111 0004            00004 21929+         LA    R1,USEPARML(R1) .  POINT TO NEXT PARM LIST ENTRY     BSW 27000034
00F528 4770 D0A6      0F4E0       21930+         BNE   SVC63C .           NO - CONTINUE PARM LIST PROCESSINGBSW 27050034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  21931+*   - ALL REQUESTS SUCCESSFULLY PROCESSED; SET RETURN CODE 0        BSW 27100034
00F52C 1744                       21932+         XR    R4,R4 .            SET RETURN CODE = 0          @DF00913 27150034
00F52E 47F0 D174      0F5AE       21933+         B     SVC63H .           STORE RET CODE, SAVE R1 & EXIT    BSW 27200034

                                  21935+*   RESOURCE CANNOT BE ALLOCATED                                    BSW 27300034
                                  21936+*   - CHECK IF RESOURCE IS ALREADY OWNED BY REQUESTOR          @D31DCAZ 27350034
00F532 1880                       21937+SVC63F   LR    R8,R0              IS REQUESTG. TASK            @D31DCAZ 27400034
00F534 5480 2000            00000 21938+         N     R8,RUR              OWNER OF RES.               @D31DCAZ 27450034
00F538 4780 D11E      0F558       21939+         BZ    SVC63FA            NO..                         @D31DCAZ 27500034
00F53C 9180 1001      00001       21940+         TM    USEFLAGS,USEW      YES,. IS FAIL=WAIT           @D31DCAZ 27550034
00F540 4710 0A04      00A04       21941+         BO    ERR2E              YES.. CANCEL(DEADLOCK)       @D31DCAZ 27600034
                                  21942+*   - CHECK FOR SAME SHARE OPTIONS IN REQ AND RUR              @D31DCAZ 27650034
00F544 4140 0008            00008 21943+         LA    R4,8               SET RC:=8(RES.OWNED)         @D31DCAZ 27700034
00F548 5470 2000            00000 21944+         N     R7,RUR             SAME SHARE OPTION            @D31DCAZ 27750034
00F54C 4770 D174      0F5AE       21945+         BNZ   SVC63H             YES.. GO TO STORE RC         @D31DCAZ 27800034
00F550 4144 0004            00004 21946+         LA    R4,4(R4)           NO..SET RC:=12               @D31DCAZ 27850034
00F554 47F0 D174      0F5AE       21947+         B     SVC63H             GO TO STORE RC               @D31DCAZ 27900034
                                  21948+*   - CHECK FOR DEADLOCKS                                           BSW 27950034
00F558 5870 077C            0077C 21949+SVC63FA  L     R7,ACCWT           ADDRESS TRANSLATE TABLE      @D31DCAZ 28000034
00F55C 1B44                       21950+         SR    R4,R4              CLEAR WORKFIELD              @D31DCAZ 28050034
00F55E BF43 2002            00002 21951+         ICM   R4,M3,RUROWN       GET OWNER BITS OF CURR RUR   @D31DCAZ 28100034
00F562 1244                       21952+SVC63FB  LTR   R4,R4              ALL OWNERS CHECKED           @D31DCAZ 28150034
00F564 4780 D170      0F5AA       21953+         BZ    SVC63G             YES.. OK                     @D31DCAZ 28200034
00F568 45F0 D216            0F650 21954+         BAL   RF,SVC63S1         NO.. CHECK 1ST OWNER         @D31DCAZ 28250034
00F56C 4780 D128      0F562       21955+         BE    SVC63FB            IF WORKG REPEAT FOR OTH OWN. @D31DCAZ 28300034
                                  21956+*   - THIS RUR IS OWNED BY A TASK WAITING FOR ANOTHER RESOURCE @D31DCAZ 28350034
00F570 45F0 D24C            0F686 21957+         BAL   RF,SVC63S2         ADD OWNER BITS DEP. ON       @D31DCAZ 28400034
00F574 1480                       21958+         NR    R8,R0              REQUESTG. TASK FOUND         @D31DCAZ 28450034
00F576 4780 D128      0F562       21959+         BZ    SVC63FB            NO.. REPEAT FOR OTHER OWNERS @D31DCAZ 28500034
00F57A 9180 1001      00001       21960+         TM    USEFLAGS,USEW      YES.. IS FAIL=WAIT           @D31DCAZ 28550034
00F57E 4710 0A04      00A04       21961+         BO    ERR2E              YES.. CANCEL(DEADLOCK)       @D31DCAZ 28600034
00F582 4140 0010            00010 21962+         LA    R4,16              NO.. SET RC:=16(DEADLOCK)    @D31DCAZ 28650034
00F586 47F0 D174      0F5AE       21963+         B     SVC63H             GO TO STORE RC               @D31DCAZ 28700034

                                  21965+*   - TEST IF NAMED RUR CAN BE ALLOCATED FROM POOL             @D31DCAZ 28850034
00F58A 95E0 1002      00002       21966+SVC63C1  CLI   USERESCD,X'E0'      NAMED RESOURCE REQ.          @D31DCAZ 28900034
00F58E 4770 09EA      009EA       21967+         BNE   ERR21              N0..CANCEL(ILLEGAL RESCD)    @D31DCAZ 28950034
00F592 1925                       21968+         CR    R2,R5              YES.. IS POOL EXHAUSTED      @D31DCAZ 29000034
00F594 47B0 D16C      0F5A6       21969+         BNL   SVC63C2             YES..                        @D31DCAZ 29050034
                                  21970+*   - EXTEND USED PART IN POOL OF NAMED RURS                    @D31DCAZ 29100034
00F598 5020 D3AE            0F7E8 21971+         ST    R2,NRURLU          NO..UPDATE 'LAST USED RUR'   @D31DCAZ 29150034
00F59C D207 2004 3000 00004 00000 21972+         MVC   RURRESN,0(R3)      PUT NAME PARAM INTO RUR      @D31DCAZ 29200034
00F5A2 47F0 D0AE      0F4E8       21973+         B     SVC63CA            GO TO COMMON ALLOC.          @D31DCAZ 29250034

00F5A6 5820 B618            01618 21975+SVC63C2  L     R2,ANRUR           ADDR DUMMY RUR 'EXHAUSTED'   @D31DCAZ 29350034
00F5AA 4140 0004            00004 21976+SVC63G   LA    R4,4 .             SET RC:=4(WAIT RECOMM)       @D31DCAZ 29450034
                                  21977+*   - SAVE CURRENT POS IN PARMLIST; IF USE WAS SUCCESSFULL OR   @D31DCAZ 29500034
                                  21978+*     'FAIL=RETURN' STORE RC IN R0  AND RETURN TO USER.         @D31DCAZ 29550034
00F5AE 5880 A004            00004 21979+SVC63H   L     R8,PIBSAVE .       ADDRESS USER SAVE AREA       @D31DCHR 29600034
00F5B2 5010 8030            00030 21980+         ST    R1,SVER01 .        SAVE CUR. POS. IN PARM LIST  @D31DCHR 29650034
00F5B6 1244                       21981+         LTR   R4,R4              WAS USE SUCCESSFULL          @D31DCAZ 29700034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F5B8 4780 D18A      0F5C4       21982+         BZ    SVC63HA             YES..                          @D31DCAZ 29750034
00F5BC 9180 1001      00001       21983+         TM    USEFLAGS,USEW       FAIL=WAIT                      @D31DCAZ 29800034
00F5C0 4710 D190      0F5CA       21984+         BO    SVC63I              YES.. PUT TASK IN WAIT         @D31DCAZ 29850034
00F5C4 5040 802C            0002C 21985+SVC63HA  ST    R4,SVER00 .         STORE RETURN CODE IN R0        @D31DCAZ 29900034
00F5C8 07F6                       21986+         BR    R6                  GO TO TASK SELECTION           @D31DCAZ 29950034

                                  21988+*   - PREPARE WAITING FOR RESOURCE                                 @D31DCAZ 30050034
00F5CA 1832                       21989+SVC63I   LR    R3,R2               SET R3:= CURR RUR ADDR         @D31DCAZ 30100034
00F5CC 45F0 D36C            0F7A6 21990+         BAL   RF,SVC6364Y         AND CONVERT IT TO RESCD        @D31DCAZ 30150034
00F5D0 4870 0752            00752 21991+         LH    R7,TIK  .           COMPUTE DISPLACEMENT OF THIS   @D31DCAZ 30200034
00F5D4 8870 0003            00003 21992+         SRL   R7,3 .                 TASK'S SLOT IN WAIT LIST    @D31DCAZ 30250034
00F5D8 4035 7000            00000 21993+         STH   R3,0(R5,R7) .       STORE RESCD WAITED FOR THERE   @D31DCAZ 30300034
00F5DC 9610 2000      00000       21994+         OI    RURFLAGS,RURW .     SET 'SOME TASK WAITING FOR     @D31DCAZ 30350034
                                  21995+*                                    THIS RESOURCE' - BIT ON      @D31DCAZ 30400034
                                  21996+*   - CHECK IF WAITG FOR EMPTY RUR CAN CAUSE DEADLOCK             @D31DCAZ 30500034
00F5E0 5820 B618            01618 21997+         L     R2,ANRUR            ADDR DUMMY RUR 'EXHAUSTED'     @D31DCAZ 30550034
00F5E4 9110 2000      00000       21998+         TM    RURFLAGS,RURW       SOMEONE WAITG FOR EMPTY RUR    @D31DCAZ 30600034
00F5E8 4780 D1EC      0F626       21999+         BZ    SVC63ID             NO..                           @D31DCAZ 30650034
00F5EC 4122 0004            00004 22000+         LA    R2,RURLEN(R2)       YES.. SET UP LOOP INDEX        @D31DCAZ 30700034
00F5F0 5870 077C            0077C 22001+         L     R7,ACCWT            ADDRESS TRANSLATE TABLE        @D31DCAZ 30750034
00F5F4 1B44                       22002+SVC63IA  SR    R4,R4               CLEAR WORKFIELD                @D31DCAZ 30800034
00F5F6 BF43 2002            00002 22003+         ICM   R4,M3,RUROWN        GET OWNER BITS OF CURR RUR     @D31DCAZ 30850034
00F5FA 1244                       22004+SVC63IB  LTR   R4,R4                ALL OWNERS CHECKED             @D31DCAZ 30900034
00F5FC 4780 D1EC      0F626       22005+         BZ    SVC63ID             YES.. THIS RUR WILL BECOME     @D31DCAZ 30950034
                                  22006+*                                  AVAILABLE ONE DAY              @D31DCAZ 31000034
00F600 45F0 D216            0F650 22007+         BAL   RF,SVC63S1          NO.. CHECK 1ST OWNER           @D31DCAZ 31050034
00F604 4780 D1C0      0F5FA       22008+         BE    SVC63IB             IF WORKG REPEAT FOR OTH OWN.   @D31DCAZ 31100034
00F608 95E0 9000      00000       22009+         CLI   0(R9),X'E0'          IS IT TYPE 1/2 WAITED FOR      @D31DCAZ 31150034
00F60C 47B0 D1DE      0F618       22010+         BNL   SVC63IC             NO.. (EITHER WAITG FOR         @D31DCAZ 31200034
                                  22011+*                                  ANOTHER NRUR WHICH WILL BE CHECKED IN THIS @D31DCAZ 31250034
                                  22012+*                                  LOOP OR WAITG FOR EMPTY RUR - TRY NEXT RUR) @D31DCAZ 31300034
00F610 45F0 D24C            0F686 22013+         BAL   RF,SVC63S2          YES.. ADD OWNER BITS DEP. ON   @D31DCAZ 31350034
00F614 47F0 D1C0      0F5FA       22014+         B     SVC63IB             REPEAT FOR OTHER OWNERS        @D31DCAZ 31400034

00F618 4122 000C            0000C 22016+SVC63IC  LA    R2,NRURLG(R2)       ADDRESS NEXT RUR               @D31DCAZ 31500034
00F61C 1925                       22017+         CR    R2,R5               END OF RUR TABLE REACHED       @D31DCAZ 31550034
00F61E 4740 D1BA      0F5F4       22018+         BL    SVC63IA             NO.. PROCESS THIS RUR          @D31DCAZ 31600034
00F622 47F0 0A04      00A04       22019+         B     ERR2E               YES.. CANCEL(DEADLOCK)         @D31DCAZ 31650034
                            0F626 22020+SVC63ID  EQU   *                                                  @D31DCAZ 31700034
00F626 5880 A004            00004 22021+         L     R8,PIBSAVE .        ADDRESS USER SAVE AREA         @D31DCAZ 31800034
                                  22022+*   - WAIT FOR RESOURCE TO BECOME AVAILABLE                          BSW 31850034
00F62A 1733                       22023+         XR    R3,R3 .             PREPARE FOR SUBROUTINE 'GETADD'    BSW 31900034
00F62C 1876                       22024+         LR    R7,R6               SAVE EXIT POINTER              @DM02906 31950034
00F62E 4560 B02E            0102E 22025+         BAL   R6,GETADD .         SET UP PSW TO RE-EXECUTE THE   @DM02906 32000034
                                  22026+*                                     FAILING REQUEST              BSW 32050034
00F632 1867                       22027+         LR    R6,R7               RESTORE EXIT POINTER           @DM02906 32100034
00F634 94FE A000      00000       22028+         NI    PIBFLG,IOBOND .     PLACE REQ TASK INTO WAIT STATE     BSW 32150034
00F638 9102 0739      00739       22029+         TM    SYSFLAG2,TPBIT      TP                             @DY20238 32160034
00F63C 4780 D214      0F64E       22030+         BZ    SVC63END            NO                             @DY20238 32165034
00F640 D501 08F4 067E 008F4 0067E 22031+         CLC   TPPIK(L2),PIK       FOR THIS PARTITION             @DY20238 32170034
00F646 4770 D214      0F64E       22032+         BNE   SVC63END            NO                             @DY20238 32175034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F64A 9604 073B      0073B       22033+         OI    SYSFLAG4,KLLRSTBT  YES, KILL TPBAL              @DY20238 32180034
                            0F64E 22034+SVC63END EQU   *                                               @DY20238 32185034
00F64E 07F6                       22035+         BR    R6                 GO TO TASK SELECTION         @D31DCHR 32200034



                                  22037+*-------------------------------------------------------------- @D31DCAZ 32300034
                                  22038+*                                                               @D31DCAZ 32350034
                                  22039+*   U S E  S U B R O U T I N E S                                 @D31DCAZ 32400034
                                  22040+*                                                               @D31DCAZ 32450034
                                  22041+*   COMPUTE ADDRESS OF RELATED SLOT IN WAITLIST FROM THE 1ST    @D31DCAZ 32500034
                                  22042+*   OF 16 POSSIBLE RUR OWNER BITS EACH REPRESENTING A TASK.     @D31DCAZ 32550034
                                  22043+*                                                               @D31DCAZ 32600034
                                  22044+*   ENTRY POINT:   SVC63S1                                      @D31DCAZ 32650034
                                  22045+*                                                               @D31DCAZ 32700034
                                  22046+*   INPUT:         RF CONTAINS RETURN ADDRESS                   @D31DCAZ 32750034
                                  22047+*                  R4 IS THE WORKFIELD. IT ACTS AS AN ORDER     @D31DCAZ 32800034
                                  22048+*                     BOOK WHERE EACH BIT '1' INDICATES A       @D31DCAZ 32850034
                                  22049+*                     DEPENDENCY EITHER FROM OWNERSHIP FOR      @D31DCAZ 32900034
                                  22050+*                     THIS RESOURCE OR IF AN OWNER IS WAITING   @D31DCAZ 32950034
                                  22051+*                     FOR A RESOURCE EVEN FROM OWNERSHIP FOR    @D31DCAZ 33000034
                                  22052+*                     THAT RESOURCE. ALL BITS MUST BE CHECKED   @D31DCAZ 33050034
                                  22053+*                     FOR DEADLOCK BEFORE EXIT.                 @D31DCAZ 33100034
                                  22054+*                  R5 START ADDRESS OF WAITLIST                 @D31DCAZ 33150034
                                  22055+*                  R7 CONTAINS ADDRESS OF CCWTADR               @D31DCAZ 33200034
                                  22056+*                  FIELDS: FREETKT,NRESMF                       @D31DCAZ 33250034
                                  22057+*                                                               @D31DCAZ 33300034
                                  22058+*   OUTPUT:        R4 IS UPDATED BY CLEARING THE BIT            @D31DCAZ 33350034
                                  22059+*                     REPRESENTING THE RESULT TASK              @D31DCAZ 33400034
                                  22060+*                  R9 CONTAINS ADDRESS OF RESULT TASK'S SLOT    @D31DCAZ 33450034
                                  22061+*                     IN WAITLIST                               @D31DCAZ 33500034
                                  22062+*                  CONDITION CODE IS SET TO 0(EQ) IF THE        @D31DCAZ 33550034
                                  22063+*                     RESULT TASK IS NOT WAITG. FOR A RESOURCE  @D31DCAZ 33600034
                                  22064+*                                                               @D31DCAZ 33650034
                                  22065+*   EXIT           TO ADDRESS IN RF                             @D31DCAZ 33700034
                                  22066+*                                                               @D31DCAZ 33750034
                                  22067+*   SUBROUTINES:   NONE                                         @D31DCAZ 33800034
                                  22068+*                                                               @D31DCAZ 33850034
                                  22069+*   REGS CHANGED:  R4,R8,R9                                     @D31DCAZ 33900034
                                  22070+*-------------------------------------------------------------- @D31DCAZ 33950034
                            06B70 22071+         USING CCWTADR,R7                                       @D31DCAZ 34000034
00F650 BE43 D3AC            0F7E6 22072+SVC63S1  STCM  R4,M3,NRESMF      STORE WF INTO MOVEFIELD       @D31DCAZ 34050034
00F654 DC01 D3AC 704C 0F7E6 06BBC 22073+         TR    NRESMF,FREETKT     RECOGN. 1ST OWNER BIT         @D31DCAZ 34100034
00F65A 4880 D3AC            0F7E6 22074+         LH    R8,NRESMF          PICK UP TRANSLATE RESULT      @D31DCAZ 34150034
00F65E 4190 0008            00008 22075+         LA    R9,8               R9:=8 FOR COMPLEMENT.         @D31DCAZ 34200034
00F662 9500 D3AC      0F7E6       22076+         CLI   NRESMF,0           IS TIK X'00' TO X'70'         @D31DCAZ 34300034
00F666 4780 D236      0F670       22077+         BE    SVC63S1A           YES.. PROCESS IT              @D31DCAZ 34350034
00F66A 8880 0008            00008 22078+         SRL   R8,8               PROCESS TIK X'80' TO X'F0'    @D31DCAZ 34400034
00F66E 1A99                       22079+         AR    R9,R9              R9:=16 FOR COMPLEMENT.        @D31DCAZ 34450034
                            0F670 22080+SVC63S1A EQU   *                                               @D31DCAZ 34500034
00F670 1B98                       22081+         SR    R9,R8              BUILD TIK/16 IN R9            @D31DCAZ 34600034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F672 4180 0001            00001 22082+         LA    R8,1              OWNER BIT OF TASK  X'00'     @D31DCAZ 34650034
00F676 8980 9000            00000 22083+         SLL   R8,0(R9)          SHIFT OWNER BIT IN POSITION  @D31DCAZ 34700034
00F67A 1B48                       22084+         SR    R4,R8             SHOOT DOWN THIS BIT IN WF    @D31DCAZ 34750034
00F67C 1A99                       22085+         AR    R9,R9             COMPUTE OFFSET IN WAITLIST   @D31DCAZ 34800034
00F67E 1A95                       22086+         AR    R9,R5             BUILD ADDR OF WAITLIST SLOT  @D31DCAZ 34850034
00F680 95FF 9000      00000       22087+         CLI   0(R9),X'FF'       IS TASK WAITING FOR RES      @D31DCAZ 34900034
00F684 07FF                       22088+         BR    RF                RETURN                       @D31DCAZ 34950034
                                  22089+         DROP  R7                                           @D31DCAZ 35000034


                                  22091+*------------------------------------------------------------  @D31DCAZ 35100034
                                  22092+*                                                              @D31DCAZ 35150034
                                  22093+*   COMPUTE ADDRESS OF RELATED RUR FROM INTERNAL RESOURCE CODE  @D31DCAZ 35200034
                                  22094+*   AND ADD OWNER BITS OF THIS RUR TO THE WORKFIELD.            @D31DCAZ 35250034
                                  22095+*                                                              @D31DCAZ 35300034
                                  22096+*   ENTRY POINT:   SVC63S2                                     @D31DCAZ 35350034
                                  22097+*                                                              @D31DCAZ 35400034
                                  22098+*   INPUT:         RF CONTAINS RETURN ADDRESS                  @D31DCAZ 35450034
                                  22099+*                  R4 WORKFIELD (DESCRIPTION SEE IN SVC63S1)   @D31DCAZ 35500034
                                  22100+*                  R9 CONTAINS ADRESS OF RESOURCE CODE         @D31DCAZ 35550034
                                  22101+*                  FIELDS: ARURTAB,AS2RUR,ANRUR                @D31DCAZ 35600034
                                  22102+*                                                              @D31DCAZ 35650034
                                  22103+*   OUTPUT:        R4 IS UPDATED BY ADDING OWNER BITS OF       @D31DCAZ 35700034
                                  22104+*                     RESULT RUR                               @D31DCAZ 35750034
                                  22105+*                  R8 CONTAINS OWNER BITS OF RESULT RUR        @D31DCAZ 35800034
                                  22106+*                                                              @D31DCAZ 35850034
                                  22107+*   EXIT:          TO ADRESS IN RF                             @D31DCAZ 35900034
                                  22108+*                                                              @D31DCAZ 35950034
                                  22109+*   SUBROUTINES:   NONE                                        @D31DCAZ 36000034
                                  22110+*                                                              @D31DCAZ 36050034
                                  22111+*   REGS CHANGED:  R3,R4,R8                                    @D31DCAZ 36100034
                                  22112+*                                                              @D31DCAZ 36150034
                                  22113+*------------------------------------------------------------  @D31DCAZ 36200034
00F686 4839 0000            00000 22114+SVC63S2  LH    R3,0(R9)          PICK UP RESCD                @D31DCAZ 36250034
00F68A 8930 0014            00014 22115+         SLL   R3,20             EXTRACT RIGHT 12 BITS        @D31DCAZ 36300034
00F68E 95E0 9000      00000       22116+         CLI   0(R9),X'E0'       NAMED RESOURCE               @D31DCAZ 36400034
00F692 4770 D268      0F6A2       22117+         BNE   SVC63S2A          NO..                         @D31DCAZ 36450034
00F696 8830 0014            00014 22118+         SRL   R3,20             BACK TO RIGHTBOUND           @D31DCAZ 36500034
00F69A 5A30 B618            01618 22119+         A     R3,ANRUR          BASE OF NAMED RURS           @D31DCAZ 36550034
00F69E 47F0 D280      0F6BA       22120+         B     SVC63S2C                                       @D31DCAZ 36600034
                            0F6A2 22121+SVC63S2A EQU   *                                            @D31DCAZ 36650034
00F6A2 8830 0012            00012 22122+         SRL   R3,18             MULTIPLY BY RURLEN(=4)       @D31DCAZ 36750034
00F6A6 9140 9000      00000       22123+         TM    0(R9),X'40'       TYPE 2 SYSTEM RES            @D31DCAZ 36800034
00F6AA 4710 D27C      0F6B6       22124+         BO    SVC63S2B          YES..                        @D31DCAZ 36850034
00F6AE 5A30 B610            01610 22125+         A     R3,ARURTAB        BASE OF TYPE 1 SYST RURS     @D31DCAZ 36900034
00F6B2 47F0 D280      0F6BA       22126+         B     SVC63S2C                                       @D31DCAZ 36950034
00F6B6 5A30 B614            01614 22127+SVC63S2B A     R3,AS2RUR         BASE OF TYPE 2 SYST RURS     @D31DCAZ 37000034
00F6BA 1B88                       22128+SVC63S2C SR    R8,R8             GET OWNER BITS OF THE RUR    @D31DCAZ 37050034
                            00000 22129+         USING RURADR,R3                                      @D31DCAZ 37100034
00F6BC BF83 3002            00002 22130+         ICM   R8,M3,RUROWN       THAT OWNER IS WAITING FOR   @D31DCAZ 37150034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   22131+         DROP  R3                                                @D31DCAZ 37200034
00F6C0 1648                        22132+         OR    R4,R8          ADD DEP OWNERS TO WORKFIELD  @D31DCAZ 37250034
00F6C2 07FF                        22133+         BR    RF             RETURN                       @D31DCAZ 37300034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 22135+*-----------------------------------------------------------@D31DCHR 37400034
                                 22136+*                                                                BSW 37450034
                                 22137+*   U S E / R E L E A S E  -  C O M M O N   S U B R O U T I N E S  BSW 37500034
                                 22138+*                                                                BSW 37550034
                                 22139+*-----------------------------------------------------------------BSW 37600034


                                 22141+* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - BSW 37700034
                                 22142+*                                                                BSW 37750034
                                 22143+*   VALIDATE PARAMETER LIST LIMITS AND FORMAT, SET UP          @DF00913 37800034
                                 22144+*   OWNER BITS IN R0 AND R4, SET UP R5                         @D31DCAZ 37850034
                                 22145+*                                                                BSW 37900034
                                 22146+*   ENTRY POINTS:  SVC6364V (ALL FUNCTIONS),                     BSW 37950034
                                 22147+*                  SVC6364W (SET UP R0, R4, AND R5)            @D31DCAZ 38000034
                                 22148+*                                                                BSW 38050034
                                 22149+*   INPUT:         RF CONTAINS RETURN ADDRESS,                   BSW 38100034
                                 22150+*                  FIELD  SVER01  IN REQ'S SAVE AREA CONTAINS THE  BSW 38150034
                                 22151+*                   VALUE TO BE LOADED INTO R1 (SEE 'RELEASE');    BSW 38200034
                                 22152+*                  IF NAMED RESOURCE REQ.(USERESCD=X'E000')    @D31DCAZ 38250034
                                 22153+*                   THEN FIELD SVER00 IN REQ'S SAVE AREA       @D31DCAZ 38300034
                                 22154+*                   CONTAINS THE VALUE TO BE LOADED INTO R3.   @D31DCAZ 38350034
                                 22155+*                                                                BSW 38400034
                                 22156+*                  RA ADDRESS OF REQUESTING TASK'S PIB         @D31DCAZ 38450034
                                 22157+*                  FIELDS  PIK,TIK (IF AP=YES),                @D31DCAZ 38500034
                                 22158+*                  AWAITL, PIBSAVE                             @D31DCAZ 38550034
                                 22159+*                                                                BSW 38600034
                                 22160+*   OUTPUT:        SEE 'ENTRY POINTS'                            BSW 38650034
                                 22161+*                                                                BSW 38700034
                                 22162+*   SUBROUTINES:   VALIDSVA                                    @D31DCAZ 38750034
                                 22163+*                                                                BSW 38800034
                                 22164+*   EXITS:         TO ADDRESS IN RF - NORMAL CASE                BSW 38850034
                                 22165+*                                                                BSW 38900034
                                 22166+*                  ONLY IF ENTERED AT 'SVC6364V' -               BSW 38950034
                                 22167+*                  TO ERR25 - INVALID PARAMETER LIST LIMITS      BSW 39000034
                                 22168+*                  TO ERR21 - INVALID PARAMETER LIST FORMAT      BSW 39050034
                                 22169+*                                                                BSW 39100034
                                 22170+*   REGS CHANGED:  R0,R1,R2,R4,R5,R7,R8 (IF ENTERED AT         @D31DCAZ 39150034
                                 22171+*                  SVC6364V)                                   @D31DCAZ 39200034
                                 22172+*                  AND R3 (IF NAMED RES ARE REQUESTED)         @D31DCAZ 39250034
                                 22173+*                  R0,R4,R5          (IF ENTERED AT SVC6364W)  @D31DCAZ 39300034
                                 22174+*                                                                BSW 39350034
                                 22175+* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - BSW 39400034

00F6C4 5880 A004           00004 22177+SVC6364V L     R8,PIBSAVE .       GET START ADDRESS              BSW 39500034
00F6C8 BF1F 8030           00030 22178+         ICM   R1,M15,SVER01 .       OF PARAMETER LIST           BSW 39550034
00F6CC 47D0 D2DE      0F718      22179+         BNP   SVC6364W .         NO PARM LIST - BYPASS VALIDATION  BSW 39600034
00F6D0 5830 802C           0002C 22180+         L     R3,SVER00          GET ADDR OF NAME FIELD      @D31DCAZ 39700034

                                 22182+*   VALIDATE PARAMETER LIST LIMITS                                BSW 39850034
00F6D4 1821                      22183+         LR    R2,R1 .            VALIDATE ADDRESS               BSW 39900034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F6D6 4580 B2C4            012C4 22184+         BAL   R8,VALIDSVA .         OF 1ST PARAMETER BYTE     @DM06083 39950034
00F6DA 1777                       22185+         XR    R7,R7 .             COMPUTE                         BSW 40000034
00F6DC 4370 1000            00000 22186+         IC    R7,USELISTL .          ADDRESS OF                 BSW 40050034
00F6E0 1E77                       22187+         ALR   R7,R7 .                LAST BYTE                  BSW 40100034
00F6E2 1E77                       22188+         ALR   R7,R7 .                IN                         BSW 40150034
00F6E4 1E71                       22189+         ALR   R7,R1 .                PARAMETER                  BSW 40200034
00F6E6 4127 0003            00003 22190+         LA    R2,USEPARML-1(R7) .    LIST                       BSW 40250034
00F6EA 4580 B2C4            012C4 22191+         BAL   R8,VALIDSVA .       VALIDATE PARAM LIST LIMITS @DM06083 40300034

                                  22193+*   VALIDATE PARAMETER LIST FORMAT                                  BSW 40400034
                            00000 22194+         USING USEPARM,R7 .                                        BSW 40450034
00F6EE 9500 7000      00000       22195+         CLI   USELISTL,ZERO .    1ST BYTE OF LAST ENTRY MUST BE 0  BSW 40500034
                                  22196+         DROP  R7                                          @D31DCAZ 40550034
00F6F2 4770 09EA      009EA       22197+         BNE   ERR21 .            NOT SO - CANCEL (ILLEGAL SVC)     BSW 40600034
00F6F6 95E0 1002      00002       22198+         CLI   USERESCD,X'E0'      NAMED RESOURCE REQ.       @D31DCAZ 40700034
00F6FA 4770 D2DE      0F718       22199+         BNE   SVC6364W           NO..                      @D31DCAZ 40750034
00F6FE 1971                       22200+         CR    R7,R1              YES.. MORE THAN ONE OPERD  @D31DCAZ 40800034
00F700 4770 09EA      009EA       22201+         BNE   ERR21              YES.. CANCEL(ILLEGAL SVC)  @D31DCAZ 40850034
                                  22202+*   - VALIDATE NAME FIELD LIMITS                              @D31DCAZ 40900034
00F704 1823                       22203+         LR    R2,R3              VALIDATE ADDRESS           @D31DCAZ 40950034
00F706 4580 B2C4            012C4 22204+         BAL   R8,VALIDSVA         OF 1ST NAME BYTE          @D31DCAZ 41000034
00F70A 4123 0007            00007 22205+         LA    R2,NRURLG-RURLEN-1(R3)  VALIDATE ADDRESS        @D31DCAZ 41050034
00F70E 4580 B2C4            012C4 22206+         BAL   R8,VALIDSVA         OF LAST NAME BYTE         @D31DCAZ 41100034
00F712 D507 3000 1000 00000 00000 22207+         CLC   0(NRURLG-RURLEN,R3),0(R1) ENSURE BOTH PARAMS  @D31DCAZ 41150034
                                  22208+*                                 ARE IN REAL STORAGE        @D31DCAZ 41200034

                                  22210+*   SET UP OWNER BITS IN R0 AND R4                            @DF00913 41350034
00F718 4100 0001            00001 22211+SVC6364W LA    R0,1 .             OWNER BIT OF TASK X'00'         BSW 41400034
00F71C 4870 0752            00752 22212+         LH    R7,TIK  .          REQUESTOR'S TASK ID             BSW 41450034
00F720 8870 0004            00004 22213+         SRL   R7,4 .             (R7) := SHIFT AMOUNT FOR THIS TIK BSW 41500034
00F724 8900 7000            00000 22214+         SLL   R0,0(R7) .         SHIFT OWNER BIT IN POSITION     BSW 41550034
00F728 1744                       22215+         XR    R4,R4 .            NO 2ND OWNER BIT FOR SUBTASKS@DF00913 41650034
00F72A D501 0752 067E 00752 0067E 22216+         CLC   TIK,PIK  .         IS REQUESTOR A MAINTASK    @DF00913 41700034
00F730 4770 D300      0F73A       22217+         BNE   SVC6364X .         NO - OWNER BIT SETTING O.K.@DF00913 41750034
00F734 1840                       22218+         LR    R4,R0 .            YES - SET ON 2ND OWNER BIT @DF00913 41850034
00F736 8940 0010            00010 22219+         SLL   R4,16 .               (FOR 'USE ..,JC' REQUESTS)@DF00913 41900034

                                  22221+*   SET UP R5                                                 @D31DCAZ 42000034
                            0F73A 22222+SVC6364X EQU   *                                             @D31DCAZ 42050034
                                  22223+*                                                                 BSW 42100034
00F73A 5850 B61C            0161C 22224+         L     R5,AWAITL .        (R5) := ADDR OF WAIT LIST  @DF00913 42150034
                                  22225+*                                                                 BSW 42200034
00F73E 07FF                       22226+         BR    RF .               LEAVE SUBROUTINE                BSW 42250034

                                  22228+* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - BSW 42350034
                                  22229+*                                                                 BSW 42400034
                                  22230+*   COMPUTE ADDRESS OF RELATED RUR FROM A RESOURCE CODE       @D31DCAZ 42450034
                                  22231+*   SPECIFIED IN SVC PARMLIST(R1), OR IF THE RESOURCE CODE    @D31DCAZ 42500034
                                  22232+*   IS X'E000' SEARCH FOR RELATED RUR BY A RESOURCE NAME      @D31DCAZ 42550034
                                  22233+*   SPECIFIED IN SVC PARAMETER 'NAME FIELD'(R0).               @D31DCAZ 42600034
                                  22234+*                                                                 BSW 42650034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 22235+*   ENTRY POINTS:  SVC6364R                                    @D31DCAZ 42700034
                                 22236+*                                                                    BSW 42750034
                                 22237+*   INPUT:         RF CONTAINS RETURN ADDRESS,                       BSW 42800034
                                 22238+*                  R3 CONTAINS ADDRESS OF NAME PARAMETER IF    @D31DCAZ 42850034
                                 22239+*                  NAMED RESOURCE IS REQUESTED(RESCD=X'E000')  @D31DCAZ 42900034
                                 22240+*                                                                    BSW 42950034
                                 22241+*                  R1 CURRENT POSITION IN PARMLIST             @D31DCAZ 43000034
                                 22242+*                  R5 START ADDRESS OF WAITLIST                @D31DCAZ 43050034
                                 22243+*                  FIELDS ARURTAB,AS2RUR,ANRUR,NRURLU          @D31DCAZ 43100034
                                 22244+*                                                                    BSW 43150034
                                 22245+*   OUTPUT:        R2 CONTAINS RUR ADDRESS,                          BSW 43200034
                                 22246+*                                                                    BSW 43250034
                                 22247+*   EXIT:          IF RUR FOUND TO ADDRESS IN RF+4             @D31DCAZ 43300034
                                 22248+*                  IF RUR NOT FOUND TO ADDRESS IN RF           @D31DCAZ 43350034
                                 22249+*                                                                    BSW 43400034
                                 22250+*   SUBROUTINES:   NONE                                               BSW 43450034
                                 22251+*                                                                    BSW 43500034
                                 22252+*   REGS CHANGED:  R2,R8,R9                                     @D31DCAZ 43550034
                                 22253+*                                                                    BSW 43600034
                                 22254+* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - BSW 43650034

                           0F740 22256+SVC6364R EQU   *                                                 @D31DCAZ 43750034
00F740 95E0 1002       00002     22257+         CLI   USERESCD,X'E0'     NAMED RESOURCE REQ.          @D31DCAZ 43850034
00F744 4780 D348       0F782     22258+         BE    SVC6364G           YES..                        @D31DCAZ 43900034
00F748 4820 1002             00002 22259+         LH    R2,USERESCD        GET RESCD FROM CURR          @D31DCAZ 44000034
                                 22260+*                                   PARMLIST ENTRY               @D31DCAZ 44050034
00F74C 8920 0014             00014 22261+         SLL   R2,20              EXTRACT RIGHT 12 BITS        @D31DCAZ 44100034
00F750 8820 0012             00012 22262+         SRL   R2,18              MULTIPLY BY RURLEN(=4)       @D31DCAZ 44150034
00F754 95C0 1002       00002     22263+         CLI   USERESCD,X'C0'     TYPE 2 SYSTEM RES            @D31DCAZ 44200034
00F758 4780 D338       0F772     22264+         BE    SVC6364E           YES..                        @D31DCAZ 44250034
00F75C 9580 1002       00002     22265+         CLI   USERESCD,X'80'     TYPE 1 SYST RES              @D31DCAZ 44300034
00F760 4780 D32C       0F766     22266+         BE    SVC6364D           YES..                        @D31DCAZ 44350034
00F764 07FF                      22267+         BR    RF                 NO.. RETURN ERROR            @D31DCAZ 44400034
00F766 5A20 B610             01610 22268+SVC6364D A     R2,ARURTAB         BASE OF    ) TYPE 1 SYST     @D31DCAZ 44450034
00F76A 5880 B614             01614 22269+         L     R8,AS2RUR          UPPER LIMIT) RUR TABLE       @D31DCAZ 44500034
00F76E 47F0 D340       0F77A     22270+         B     SVC6364F                                        @D31DCAZ 44550034
00F772 5A20 B614             01614 22271+SVC6364E A     R2,AS2RUR          BASE OF    ) TYPE 2 SYST     @D31DCAZ 44600034
00F776 5880 B618             01618 22272+         L     R8,ANRUR           UPPER LIMIT) RUR TABLE       @D31DCAZ 44850034
00F77A 1928                      22273+SVC6364F CR    R2,R8              RESCD WITHIN LIMITS          @D31DCAZ 44950034
00F77C 474F 0004       00004     22274+         BL    4(RF)              YES.. RETURN OK              @D31DCAZ 45000034
00F780 07FF                      22275+         BR    RF                 NO.. RETURN ERROR            @D31DCAZ 45050034
                                 22276+*   - SEARCH POOL FOR THIS RESOURCE NAME                        @D31DCAZ 45150034
00F782 5820 B618             01618 22277+SVC6364G L     R2,ANRUR           SETUP REGS FOR               @D31DCAZ 45200034
00F786 4122 0004             00004 22278+         LA    R2,RURLEN(R2)       BXLE LOOP - INDEX           @D31DCAZ 45250034
00F78A 4180 000C             0000C 22279+         LA    R8,NRURLG                 - INCR                @D31DCAZ 45300034
00F78E 5890 D3AE             0F7E8 22280+         L     R9,NRURLU                 - COMP                @D31DCAZ 45350034
00F792 1929                      22281+         CR    R2,R9              IS POOL UNUSED               @D31DCAZ 45400034
00F794 072F                      22282+         BCR   H,RF               YES..RETURN NOT FOUND        @D31DCAZ 45450034
00F796 D507 2004 3000 00004 00000 22283+SVC6364H CLC   RURRESN,0(R3)      RESNAME EQ NAME PARAM        @D31DCAZ 45500034
00F79C 478F 0004       00004     22284+         BE    4(RF)              YES.. RETURN FOUND           @D31DCAZ 45550034
00F7A0 8728 D35C             0F796 22285+         BXLE  R2,R8,SVC6364H     NO.. REPEAT FOR POOL         @D31DCAZ 45600034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F7A4 07FF                      22286+         BR    RF                 RETURN NOT FOUND             @D31DCAZ 45650034

                                 22288+*-------------------------------------------------             @D31DCAZ 45800034
                                 22289+*                                                             @D31DCAZ 45850034
                                 22290+*   COMPUTE RELATED INTERNAL RESOURCE CODE FROM ADDRESS OF RUR @D31DCAZ 45900034
                                 22291+*                                                             @D31DCAZ 45950034
                                 22292+*   ENTRY POINT:   SVC6364Y                                   @D31DCAZ 46000034
                                 22293+*                                                             @D31DCAZ 46050034
                                 22294+*   INPUT:         RF CONTAINS RETURN ADDRESS                 @D31DCAZ 46100034
                                 22295+*                  R3 CONTAINS ADDRESS OF CURRENT RUR         @D31DCAZ 46150034
                                 22296+*                  FIELDS: ARURTAB,AS2RUR,ANRUR,NRESMF        @D31DCAZ 46200034
                                 22297+*                                                             @D31DCAZ 46250034
                                 22298+*   OUTPUT:        R3 CONTAINS RESOURCE CODE IN BYTES 2 + 3,  @D31DCAZ 46300034
                                 22299+*                     THE HIGH ORDER BYTES ARE SET TO X'FFFF' @D31DCAZ 46350034
                                 22300+*                                                             @D31DCAZ 46400034
                                 22301+*   EXIT:          TO ADDRESS IN RF                           @D31DCAZ 46450034
                                 22302+*                                                             @D31DCAZ 46500034
                                 22303+*   SUBROUTINES:   NONE                                       @D31DCAZ 46550034
                                 22304+*                                                             @D31DCAZ 46600034
                                 22305+*   REGS CHANGED:  R3,R8                                      @DM11804 46650034
                                 22306+*-------------------------------------------------------      @D31DCAZ 46700034
                          0F7A6  22307+SVC6364Y EQU   *                                              @D31DCAZ 46750034
00F7A6 5930 B618                 01618 22308+         C     R3,ANRUR           NAMED RUR            @D31DCAZ 46850034
00F7AA 4740 D380      0F7BA            22309+         BL    SVC6364K           NO..                 @D31DCAZ 46900034
00F7AE 5B30 B618                 01618 22310+         S     R3,ANRUR           BASE OF NAMED RURS   @D31DCAZ 46950034
00F7B2 92E0 D3AC      0F7E6            22311+         MVI   NRESMF,X'E0'       LEFT BYTE = NAMED    @D31DCAZ 47000034
00F7B6 47F0 D3A0      0F7DA            22312+         B     SVC6364N                                @D31DCAZ 47050034
                                 0F7BA  22313+SVC6364K EQU   *                                      @D31DCAZ 47100034
00F7BA 5930 B614                 01614 22314+         C     R3,AS2RUR          TYPE 2 SYST RUR      @D31DCAZ 47200034
00F7BE 4740 D394      0F7CE            22315+         BL    SVC6364L           NO..                 @D31DCAZ 47250034
00F7C2 5B30 B614                 01614 22316+         S     R3,AS2RUR          BASE OF TYPE 2 SYST RURS @D31DCAZ 47300034
00F7C6 92C0 D3AC      0F7E6            22317+         MVI   NRESMF,X'C0'       LEFT BYTE = TYPE 2   @D31DCAZ 47350034
00F7CA 47F0 D39C      0F7D6            22318+         B     SVC6364M                                @D31DCAZ 47400034
00F7CE 5B30 B610                 01610 22319+SVC6364L S     R3,ARURTAB         BASE OF TYPE 1 SYST RURS @D31DCAZ 47450034
00F7D2 9280 D3AC      0F7E6            22320+         MVI   NRESMF,X'80'       LEFT BYTE = TYPE 1   @D31DCAZ 47500034
00F7D6 8830 0002                 00002 22321+SVC6364M SRL   R3,2              DIVIDE BY RURLEN(=4) @D31DCAZ 47550034
00F7DA 9200 D3AD      0F7E7            22322+SVC6364N MVI   NRESMF+1,X'00'     RIGHT BYTE OF RESCD  @DM11804 47600034
00F7DE 4880 D3AC                 0F7E6 22323+         LH    R8,NRESMF          LOAD RESCD FOR CH INSTR @DM11804 47650034
00F7E2 1638                            22324+         OR    R3,R8                                   @DM11804 47700034
00F7E4 07FF                            22325+         BR    RF                 RETURN               @D31DCAZ 47750034

00F7E6 0000                            22327+NRESMF   DC    H'0'               MOVE FIELD FOR TR INSTR @D31DCAZ 47850034
00F7E8 00012E7C                        22328+NRURLU   DC    A(NRUR+RURLEN-NRURLG)  PTR TO 'LAST USED RUR' @D31DCAZ 47950034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 22330+*-------------------------------------------------------------------BSW 48100034
                                 22331+*                                                                    BSW 48150034
                                 22332+*       R E L E A S E   ( S V C   6 4 )                              BSW 48200034
                                 22333+*                                                                    BSW 48250034
                                 22334+*       ENTRY POINTS:  SVC64CTD FROM SVC64 (NORMAL ENTRY PNT) @D31DCAZ 48300034
                                 22335+*                      SVC64ALL (ONLY FOR SUPERVISOR ROUTINES      BSW 48350034
                                 22336+*                              TO REQUEST 'RELEASE ALL,JC'). @DF00913 48400034
                                 22337+*                                                                    BSW 48450034
                                 22338+*       INPUT:         R1 (LOADED FROM 'SVER01' IN REQUESTOR'S     BSW 48500034
                                 22339+*                         SAVE AREA) POINTS TO A PARAMETER LIST OF BSW 48550034
                                 22340+*                         THE FORMAT DESCRIBED BY DSECT 'USEPARM'; BSW 48600034
                                 22341+*                         'RELEASE ALL' IS REQUESTED BY SETTING    BSW 48650034
                                 22342+*                         R1 = 0.R1 NEGATIVE SIGNALS A        @DF00913 48700034
                                 22343+*                         'RELEASE ALL,JC' REQUEST.           @DF00913 48750034
                                 22344+*                      R3 (LOADED FROM 'SVER00' IN REQ'S      @D31DCAZ 48800034
                                 22345+*                         SAVE AREA) POINTS TO A PARAMETER    @D31DCAZ 48850034
                                 22346+*                         'NAME FIELD' 8 BYTES.               @D31DCAZ 48900034
                                 22347+*                                                                    BSW 48950034
                                 22348+*                      R6,RA,RB,RC,RD,RE (SEE 'REGISTER USAGE'),     BSW 49000034
                                 22349+*                      FIELDS  PIK,TIK (IF AP=YES), ARURTAB,  @DF00913 49050034
                                 22350+*                              ANRUR, AS2RUR,AWAITL,RURTAB,   @D31DCAZ 49100034
                                 22351+*                              WAITLIST,YPIBTAB, PIBSAVE      @DF00913 49150034
                                 22352+*                              NRURLU,NRESMF                  @D31DCAZ 49200034
                                 22353+*                                                                    BSW 49250034
                                 22354+*       OUTPUT:        IF NO ERROR IS FOUND -                        BSW 49300034
                                 22355+*                      PROPERLY UPDATED RUR-TABLE,                   BSW 49350034
                                 22356+*                      TASKS WAITING FOR ONE OF THE RELEASED         BSW 49400034
                                 22357+*                         RESOURCES ARE MADE READY (WAITLIST ENTRY BSW 49450034
                                 22358+*                         PURGED AND PIB-FLAG SET TO X'83'),         BSW 49500034
                                 22359+*                                                                    BSW 49550034
                                 22360+*                      ELSE -                                        BSW 49600034
                                 22361+*                      RUR TABLE UPDATED ONLY FOR PARM LIST ENTRIESBSW 49650034
                                 22362+*                         PROCESSED BEFORE DETECTING THE ERROR       BSW 49700034
                                 22363+*                                                                    BSW 49750034
                                 22364+*       SUBROUTINES:   SVC6364V, VALIDSVA, GETADD, SVC6364R,  @D31DCAZ 49800034
                                 22365+*                      SVC6364Y; SVC6364W,SVC64S1             @D31DCAZ 49850034
                                 22366+*                                                                    BSW 49900034
                                 22367+*       EXITS:         TO ADDRESS IN R6 - NORMAL CASE                BSW 49950034
                                 22368+*                      TO ERR25 - INVALID PARAMETER LIST LIMITS      BSW 50000034
                                 22369+*                      TO ERR21 - INVALID PARM LIST FORMAT   O R     BSW 50050034
                                 22370+*                                 INVALID RESOURCE CODE              BSW 50100034
                                 22371+*                                                                    BSW 50150034
                                 22372+*-------------------------------------------------------------------BSW 50200034

00F7EC                           22374+SVC64CTD DS    0H                                            @D34RDJO 50270034
00F7EC 45F0 D28A          0F6C4  22375+SVC64    BAL   RF,SVC6364V .      VALID.PARM LIST ADDR & FORMAT@DM01647 50300034
                                 22376+*                                    IF VALID, SET UP R0,R4,R5 @D31DCAZ 50350034
                                 22377+*                                    IF APPROP. SET UP R3      @D31DCAZ 50400034
                                 22378+*                                    ELSE CANCEL (ERR25 OR ERR21)   BSW 50450034

                                 22380+*   PROCESS REQUESTOR'S PARAMETER LIST                               BSW 50550034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  22381+*   - COMPUTE CURRENT RUR ADDRESS                                      BSW 50600034
00F7F0 1604                       22382+SVC64AA  OR    R0,R4 .            TO MODIFY BOTH OWNER BITS    @DF00913 50650034
00F7F2 5820 B610            01610 22383+         L     R2,ARURTAB         CURRENT RUR := 1ST RUR       @D31DCAZ 50700034
00F7F6 1211                       22384+         LTR   R1,R1 .            RELEASE ALL REQUEST ?             BSW 50750034
00F7F8 47D0 D3D8      0F812       22385+         BNP   SVC64C .           YES - CURRENT RUR ADDR O.K.  @DF00913 50800034
00F7FC 45F0 D306            0F740 22386+SVC64A   BAL   RF,SVC6364R .     ADDRESS RUR REQUESTED BY          BSW 50850034
                                  22387+*                                    CURRENT PARM LIST ENTRY        BSW 50900034
00F800 47F0 D490      0F8CA       22388+         B     SVC64A1            RESOURCE CODE NOT FOUND      @D31DCAZ 51150034
                                  22389+*   - TEST FOR 'RELEASE S' & PREPARE TO MODIFY CURRENT RUR     @D31DCHR 51250034
00F804 4170 0005            00005 22390+         LA    R7,RURS+RURX .     ACCESS FLAGS FOR RELEASE S   @D31DCHR 51300034
00F808 1788                       22391+         XR    R8,R8 .            TO SET OWNER BIT(S)  (REL S) @D31DCHR 51350034
00F80A 9102 1001      00001       22392+         TM    USEFLAGS,USES .    TEST IF RELEASE S REQUEST    @D31DCHR 51400034
00F80E 4710 D3DC      0F816       22393+         BO    SVC64D .           BRANCH IF SO (USES = 1)      @D31DCHR 51450034
00F812 1777                       22394+SVC64C   XR    R7,R7 .            ACCESS FLAGS FOR NORMAL REL. @D31DCHR 51500034
00F814 1380                       22395+         LCR   R8,R0 .            TO SET OWNER BIT(S) (NRM REL)@D31DCHR 51550034
00F816 0680                       22396+SVC64D   BCTR  R8,0 .             TO SET OWNER BIT (S)         @D31DCHR 51600034
                                  22397+*        CHECK IF CURRENT RUR WAS ACQUIRED BY 'USE ...,JC'     @DF00913 51650034
                                  22398+*        IF SO,IGNORE RELEASE REQ UNLESS IT IS 'RELEASE ...,JC'@DF00913 51700034
00F818 18A4                       22399+         LR    RA,R4 .            PREPARE FOR CHECKING         @DF00913 51750034
00F81A 1211                       22400+         LTR   R1,R1 .            RELEASE ALL REQUEST          @DF00913 51800034
00F81C 4740 D3FA      0F834       22401+         BM    SVC64DB .          'RELEASE ALL,JC'-DONT CHECK  @DF00913 51850034
00F820 4780 D3F2      0F82C       22402+         BZ    SVC64DA .          'RELEASE ALL'-CHECK          @DF00913 51900034
00F824 9140 1001      00001       22403+         TM    USEFLAGS,USEJ .    NO-IS IT'RELEASE ...,JC'     @DF00913 51950034
00F828 4710 D3FA      0F834       22404+         BO    SVC64DB .          YES,DON'T CHECK              @DF00913 52000034
00F82C 54A0 2000            00000 22405+SVC64DA  N     RA,RUR .           CURRENT RUR ACQUIRED         @DF00913 52050034
                                  22406+*                                    THROUGH USE ...,JC'        @DF00913 52100034
00F830 4770 D498      0F8D2       22407+         BNZ   SVC64G .           YES,DON'T RELEASE CURR RUR   @DF00913 52150034
                                  22408+*   - EXECUTE RELEASE REQUEST,SET REQUESTOR'S NEW OWNWERBIT    @DF00913 52200034
00F834 BFA7 2001            00001 22409+SVC64DB  ICM   RA,M7,RURJC .      GET OWNER BITS OF CURRENT RUR@DF00913 52250034
00F838 4780 D498      0F8D2       22410+         BZ    SVC64G             RUR NOT IN USE, IGNORE REQ   @D31DCAZ 52300034
00F83C 14A8                       22411+         NR    RA,R8 .            MODIFY REQ'S OWNER BIT(S)    @DF00913 52350034
00F83E BEA7 2001            00001 22412+         STCM  RA,M7,RURJC .      STORE NEW OWNER BIT(S)       @DF00913 52400034
                                  22413+*   - CHECK IF REQUESTING TASK WAS ONLY OWNER OF CURRENT RESOURCE   BSW 52450034
00F842 16A0                       22414+         OR    RA,R0 .            SET REQ'S OWNER BIT(S) ON    @D31DCHR 52500034
00F844 17A0                       22415+         XR    RA,R0 .               AND OFF                   @D31DCHR 52550034
00F846 4770 D498      0F8D2       22416+         BNZ   SVC64G .           BRANCH IF THIS TASK WAS NOT ONLY  BSW 52600034
                                  22417+*                                    OWNER OF CURRENT RESOURCE      BSW 52650034
                                  22418+*   - REQUESTING TASK IS ONLY OWNER; TEST IF SOMEONE IS WAITING     BSW 52700034
                                  22419+*     FOR THIS RESOURCE, THEN SET NEW ACCESS FLAGS                 BSW 52750034
00F84A 9110 2000      00000       22420+         TM    RURFLAGS,RURW .    SOME TASK WAITING FOR THIS RUR?   BSW 52800034
00F84E 4270 2000            00000 22421+         STC   R7,RURFLAGS .      SET NEW ACCESS FLAGS,PARTIC. @D31DCHR 52850034
                                  22422+*                                  RESET 'SOMEONE WAITING' BIT  @D31DCHR 52900034
00F852 4780 D428      0F862       22423+         BZ    SVC64E .           NO..                         @D31DCAZ 52950034

                                  22425+*   SOMEONE WAITING; LOOP THROUGH WAIT LIST                          BSW 53050034
00F856 1832                       22426+         LR    R3,R2              SET R3:=CURR RUR ADDR        @D31DCAZ 53100034
00F858 45F0 D36C            0F7A6 22427+         BAL   RF,SVC6364Y        AND CONVERT IT TO RESCD      @D31DCAZ 53150034
00F85C 1BAA                       22428+         SR    RA,RA              WAKE UP ALL TASKS WAITG      @D31DCAZ 53200034
00F85E 45F0 D4D8            0F912 22429+         BAL   RF,SVC64S1          FOR THIS RESOURCE          @D31DCAZ 53250034
                            0F862 22430+SVC64E   EQU   *                                              @D31DCAZ 53300034
00F862 1277                       22431+         LTR   R7,R7              IS RUR NOW AVAILABLE         @D31DCAZ 53400034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F864 4770 D498      0F8D2       22432+         BNZ   SVC64G              NO..                          @D31DCAZ 53450034
                                  22433+*   - CHECK IF NAMED RURS ARE AFFECTED                           @D31DCAZ 53500034
00F868 5920 B618            01618 22434+         C     R2,ANRUR            NAMED RUR FREED               @D31DCAZ 53550034
00F86C 47D0 D498      0F8D2       22435+         BNH   SVC64G              NO..                          @D31DCAZ 53600034
00F870 5870 D3AE            0F7E8 22436+         L     R7,NRURLU           GET ADDR OF 'LAST USED RUR'   @D31DCAZ 53650034
00F874 1927                       22437+         CR    R2,R7               WAS LAST USED FREED           @D31DCAZ 53700034
00F876 4780 D468      0F8A2       22438+         BE    SVC64F              YES..                         @D31DCAZ 53750034
                                  22439+*   - COMPRESS USED PART IN POOL OF NAMED RURS                   @D31DCAZ 53800034
00F87A D20B 2000 7000 00000 00000 22440+         MVC   RUR(NRURLG),0(R7)   COPY LU RUR TO CURR RUR       @D31DCAZ 53850034
00F880 D703 7000 7000 00000 00000 22441+         XC    0(RURLEN,R7),0(R7)  ERASE LU RUR EXCEPT NAME      @D31DCAZ 53900034
00F886 9110 2000      00000       22442+         TM    RURFLAGS,RURW       SOMEONE WAITG FOR LU RUR      @D31DCAZ 53950034
00F88A 4780 D466      0F8A0       22443+         BZ    SVC64E1             NO..                          @D31DCAZ 54000034
                                  22444+*   - ADAPT ALL TASKS WAITING FOR 'LAST USED RUR' TO NEW         @D31DCAZ 54050034
                                  22445+*     INTERNAL RESOURCE CODE                                     @D31DCAZ 54100034
00F88E 1832                       22446+         LR    R3,R2               SET R3:= CURR RUR             @D31DCAZ 54150034
00F890 45F0 D36C            0F7A6 22447+         BAL   RF,SVC6364Y         AND CONVERT IT TO RESCD       @D31DCAZ 54200034
00F894 18A3                       22448+         LR    RA,R3               NOTE RESULT FOR ADAPT LOOP    @D31DCAZ 54250034
00F896 1837                       22449+         LR    R3,R7               SET R3:= LU RUR               @D31DCAZ 54300034
00F898 45F0 D36C            0F7A6 22450+         BAL   RF,SVC6364Y         AND CONVERT IT TO RESCD       @D31DCAZ 54350034
00F89C 45F0 D4D8            0F912 22451+         BAL   RF,SVC64S1          ADAPT ALL ENTRIES IN WAITL    @D31DCAZ 54400034
00F8A0 1322                       22452+SVC64E1  LCR   R2,R2               INDIC. NO INCR. IF REL ALL    @D31DCAZ 54450034
                                  22453+*   - NOTIFY COMPRESSION OF USED PART IN POOL OF NAMED RURS      @D31DCAZ 54500034
00F8A2 4180 000C            0000C 22454+SVC64F   LA    R8,NRURLG           BUILD LENGTH OF NRUR          @D31DCAZ 54550034
00F8A6 1B78                       22455+         SR    R7,R8               UPDATE PTR TO                 @D31DCAZ 54600034
00F8A8 5070 D3AE            0F7E8 22456+         ST    R7,NRURLU            'LAST USED RUR'              @D31DCAZ 54650034
                                  22457+*   - TEST IF SOMEONE IS WAITING FOR EMPTY RUR                   @D31DCAZ 54700034
00F8AC 5830 B618            01618 22458+         L     R3,ANRUR            ADDR DUMMY RUR 'EXHAUSTED'    @D31DCAZ 54750034
                            00000 22459+         USING RURADR,R3                                         @D31DCAZ 54800034
00F8B0 9110 3000      00000       22460+         TM    RURFLAGS,RURW       SOMEONE WAITG FOR EMPTY RUR   @D31DCAZ 54850034
00F8B4 4780 D498      0F8D2       22461+         BZ    SVC64G              NO..                          @D31DCAZ 54900034
                                  22462+*   - SOMEONE WAITING, LOOP THROUGH WAITLIST                     @D31DCAZ 54950034
00F8B8 94EF 3000      00000       22463+         NI    RURFLAGS,255-RURW   RESET SOMEONE WAITG FLAG      @D31DCAZ 55000034
                                  22464+         DROP  R3                                              @D31DCAZ 55050034
00F8BC 45F0 D36C            0F7A6 22465+         BAL   RF,SVC6364Y         CONVERT TO RESCD FOR 'EXH.'   @D31DCAZ 55100034
00F8C0 1BAA                       22466+         SR    RA,RA               WAKEUP ALL TASKS              @D31DCAZ 55150034
00F8C2 45F0 D4D8            0F912 22467+         BAL   RF,SVC64S1           WAITING FOR EMPTY RUR        @D31DCAZ 55200034
00F8C6 47F0 D498      0F8D2       22468+         B     SVC64G                                          @D31DCAZ 55250034

00F8CA 95E0 1002      00002       22470+SVC64A1  CLI   USERESCD,X'E0'      NAMED RESOURCE REQ.           @D31DCAZ 55350034
00F8CE 4770 09EA      009EA       22471+         BNE   ERR21               NO.. CANCEL(ILLEGAL RESCD)    @D31DCAZ 55400034

                                  22473+*   NEXT ENTRY IN PARAMETER LIST OR RUR TABLE                        BSW 55550034
00F8D2 1211                       22474+SVC64G   LTR   R1,R1 .             RELEASE ALL REQUEST ?            BSW 55600034
00F8D4 4720 D4BE      0F8F8       22475+         BP    SVC64H .            NO                            @DF00913 55650034
                                  22476+*                                                                    BSW 55700034
00F8D8 1322                       22477+         LCR   R2,R2               ASSUME NO INCREASE (SVC64E1)  @D31DCAZ 55800034
00F8DA 4720 D3D8      0F812       22478+         BP    SVC64C              YES.. REPEAT FOR COPIED RUR   @D31DCAZ 55850034
00F8DE 1322                       22479+         LCR   R2,R2               NO.. RESET R2 TO TRUE VALUE   @D31DCAZ 55900034
00F8E0 5920 B618            01618 22480+         C     R2,ANRUR            NAMED RUR PROCESSED           @D31DCAZ 55950034
00F8E4 47D0 D4B2      0F8EC       22481+         BNH   SVC64G1             NO..                          @D31DCAZ 56000034
00F8E8 4122 0008            00008 22482+         LA    R2,NRURLG-RURLEN(R2) YES..ADDR NEXT NRUR          @D31DCAZ 56050034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0F8EC 22483+SVC64G1  EQU   *                                                  @D31DCAZ 56100034
00F8EC 4122 0004           00004 22484+         LA    R2,RURLEN(R2) .    YES - ADDRESS NEXT RUR             BSW 56200034
00F8F0 1925                      22485+         CR    R2,R5 .            END OF RUR-TABLE REACHED ?         BSW 56250034
00F8F2 4740 D3D8      0F812      22486+         BL    SVC64C .           NO - PROCESS THIS RUR              BSW 56300034
00F8F6 07F6                      22487+         BR    R6 .               YES - GO TO TASK SELECTION         BSW 56350034
                                 22488+*                                                                    BSW 56400034
00F8F8 9500 1000      00000      22489+SVC64H   CLI   USELISTL,ZERO .    END OF PARAMETER LIST REACHED ?    BSW 56450034
00F8FC 4111 0004           00004 22490+         LA    R1,USEPARML(R1) .  ADDRESS NEXT PARM LIST ENTRY       BSW 56500034
00F900 4770 D3C2      0F7FC      22491+         BNE   SVC64A .           NO - PROCESS THIS ENTRY            BSW 56550034
00F904 07F6                      22492+         BR    R6 .               YES - GO TO TASK SELECTION         BSW 56600034

                                 22494+*        ENTRY FOR SUPERVISOR ROUTINES REQUESTING 'RELEASE ALL'     BSW 56700034
00F906 1711                      22495+SVC64ALL XR    R1,R1 .            MAKE R1 NEGATIVE TO SIGNAL     @DF00913 56750034
00F908 0610                      22496+         BCTR  R1,0 .                'RELEASE ALL,JC' REQUEST    @DF00913 56800034
00F90A 45F0 D2DE           0F718 22497+         BAL   RF,SVC6364W .      SET UP R0, R4, AND R5          @D31DCAZ 56850034
00F90E 47F0 D3B6      0F7F0      22498+         B     SVC64AA .          JOIN RELEASE MAINLINE              BSW 56900034




                                 22500+*------------------------------------------------------------  @D31DCAZ 57000034
                                 22501+*                                                               @D31DCAZ 57050034
                                 22502+*   R E L E A S E   S U B R O U T I N E                         @D31DCAZ 57100034
                                 22503+*                                                               @D31DCAZ 57150034
                                 22504+*   FUNCTION A: WAKE UP ALL TASKS WAITING FOR A CERTAIN         @D31DCAZ 57200034
                                 22505+*               RESOURCE                                        @D31DCAZ 57250034
                                 22506+*   FUNCTION B: ADAPT ALL TASKS WAITING FOR A CERTAIN NAMED     @D31DCAZ 57300034
                                 22507+*               RESOURCE TO A DIFFERENT INTERNAL RESOURCE CODE  @D31DCAZ 57350034
                                 22508+*                                                               @D31DCAZ 57400034
                                 22509+*   ENTRY POINT:   SVC64S1                                      @D31DCAZ 57450034
                                 22510+*                                                               @D31DCAZ 57500034
                                 22511+*   INPUT:         RF CONTAINS RETURN ADDRESS                   @D31DCAZ 57550034
                                 22512+*                  R3 CONTAINS RESOURCE CODE IN BYTES 2 + 3,    @D31DCAZ 57600034
                                 22513+*                     HIGH ORDER BYTES ARE SET TO X'FFFF'       @D31DCAZ 57650034
                                 22514+*                  R5 START ADDRESS OF WAITLIST                 @D31DCAZ 57700034
                                 22515+*                  RA FOR FUNCTION A IS ZERO                    @D31DCAZ 57750034
                                 22516+*                     FOR FUNCTION B CONTAINS RESOURCE CODE     @D31DCAZ 57800034
                                 22517+*                     TO STORE                                  @D31DCAZ 57850034
                                 22518+*                  FIELDS: YPIBTAB,PIBFLG,WAITLIST              @D31DCAZ 57900034
                                 22519+*   OUTPUT FUNCTION A: FOR EACH TASK FOUND WAITING FOR THIS     @D31DCAZ 57950034
                                 22520+*                      RESOURCE READY TASK (POST IOCMPL)        @D31DCAZ 58000034
                                 22521+*                      RESET WAITLIST ENTRY TO X'FFFF'          @D31DCAZ 58050034
                                 22522+*   OUTPUT FUNCTION B: FOR EACH TASK FOUND WAITING FOR THIS     @D31DCAZ 58100034
                                 22523+*                      RESOURCE PUT NEW RESOURCE CODE INTO      @D31DCAZ 58150034
                                 22524+*                      WAITLIST SLOT.                           @D31DCAZ 58200034
                                 22525+*                                                               @D31DCAZ 58250034
                                 22526+*   EXIT:          TO ADDRESS IN RF                             @D31DCAZ 58300034
                                 22527+*                                                               @D31DCAZ 58350034
                                 22528+*   SUBROUTINES:   NONE                                         @D31DCAZ 58400034
                                 22529+*                                                               @D31DCAZ 58450034
                                 22530+*   REGS CHANGED:  R8,R9,RA                                     @D31DCAZ 58500034
                                 22531+*------------------------------------------------------------  @D31DCAZ 58550034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00F912 4190 001E            0001E 22532+SVC64S1  LA    R9,L'WAITLIST-2    ADDR LAST WAITLIST SLOT      @D31DCAZ 58600034
00F916 1B88                       22533+         SR    R8,R8              SET R8 TO                    @D31DCAZ 58650034
00F918 0680                       22534+         BCTR  R8,0                MINUS ONE (X'FFFFFFFF')     @D31DCAZ 58700034
00F91A 4935 9000            00000 22535+SVC64S1A CH    R3,0(R5,R9)        WAITING FOR THIS RESOURCE    @D31DCAZ 58750034
00F91E 4770 D506      0F940       22536+         BNE   SVC64S1B          NO..                         @D31DCAZ 58800034
00F922 12AA                       22537+         LTR   RA,RA              FUNCTION B REQUESTED         @D31DCAZ 58900034
00F924 40A5 9000            00000 22538+         STH   RA,0(R5,R9)        ASSUME IT                    @D31DCAZ 58950034
00F928 4770 D506      0F940       22539+         BNZ   SVC64S1B          YES..                        @D31DCAZ 59000034
00F92C 18A9                       22540+         LR    RA,R9              NO..COMPUTE THE              @D31DCAZ 59100034
00F92E 89A0 0003            00003 22541+         SLL   RA,3                WAITING TASK'S TIK           @D31DCAZ 59150034
00F932 4AA0 06AA            006AA 22542+         AH    RA,YPIBTAB         BUILD ADDR OF ITS PIB        @D31DCAZ 59200034
00F936 9601 A000      00000       22543+         OI    PIBFLG,IOCMPL      READY TASK (ONLY IF PIBFLG   @D31DCAZ 59250034
                                  22544+*                                 WAS = X'82' OR X'83')        @D31DCAZ 59300034
00F93A 1BAA                       22545+         SR    RA,RA              RESET RA FOR FUNCTION A      @D31DCAZ 59400034
00F93C 4085 9000            00000 22546+         STH   R8,0(R5,R9)        RESET CURR WAITLIST ENTRY    @D31DCAZ 59500034
00F940 1A98                       22547+SVC64S1B AR    R9,R8              POINT TO NEXT                @D31DCAZ 59550034
00F942 1A98                       22548+         AR    R9,R8               SLOT ON THE LEFT            @D31DCAZ 59600034
00F944 47B0 D4E0      0F91A       22549+         BNM   SVC64S1A           REPEAT FOR WAITLIST          @D31DCAZ 59650034
00F948 07FF                       22550+         BR    RF                 RETURN                       @D31DCAZ 59700034



                            00000 22552+         USING CCBADR,R1 .        STANDARD USAGE OF R1             BSW 59800034
                            00000 22553+         USING PUBADR,R3          STANDARD USAGE OF R3         @D31DCAZ 59850034
                            00000 22554+         USING CCWADR,R7          STANDARD USAGE OF R7         @D31DCAZ 59900034
                                  22555+         DROP  R2 .                                            @D34RDFG 59950034


                                  22557+         DROP  RD                 RELEASE COMMON BASE          @D34RDFG 60400034
                                  22558+* SUPERVISOR - SGATAB - 5745-SC-SUP - REL. 34.1                 @DY20090 00106034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                 22562+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PADO 04600034
                                 22563+*                                                                  @D33PADO 04650034
                                 22564+* TTIMER TABLE                                                     @D33PADO 04700034
                                 22565+*                                                                  @D33PADO 04750034
                                 22566+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *@D33PADO 04800034

00F94A 000000000000
00F950 0000000000000000          22568+TTTAB    DC    1D'0'              TTIMER ADDRESSES                 @D33PADO 04900034
00F958 0000000000000000          22569+TTIME    DC    1D'0'              TTIMER TIMER VALUE               @D33PADO 04950034
00F960                           22570+         DS    0F                                                  @D34UDFR 27064334
                          0F960  22571+PCBTAB   EQU   *                                                 @D34UDFR 27064634
00F960 00                        22572+PCBBG     DC    B'00000000'        PCBFLAG                        @D34UDFR 27067734
00F961 10                        22573+         DC    X'10'              SECOND BYTE OF PIK OF PART.    @D34UDFR 27068334
00F962 0001                      22574+         DC    H'1'               NUMBER OF TASKS ATTACHED       @D34UDFR 27068634
00F964 0000F970                  22575+         DC    A(PCBF3)           PRIORITY CHAIN POINTER         @D34UDFR 27086034
00F968 00                        22576+PCBF4     DC    B'00000000'        PCBFLAG                        @D34UDFR 27067734
00F969 20                        22577+         DC    X'20'              SECOND BYTE OF PIK OF PART.    @D34UDFR 27068334
00F96A 0001                      22578+         DC    H'1'               NUMBER OF TASKS ATTACHED       @D34UDFR 27068634
00F96C 0000F978                  22579+         DC    A(PCBF2)           PRIORITY CHAIN POINTER         @D34UDFR 27086034
00F970 00                        22580+PCBF3     DC    B'00000000'        PCBFLAG                        @D34UDFR 27067734
00F971 30                        22581+         DC    X'30'              SECOND BYTE OF PIK OF PART.    @D34UDFR 27068334
00F972 0001                      22582+         DC    H'1'               NUMBER OF TASKS ATTACHED       @D34UDFR 27068634
00F974 0000F968                  22583+         DC    A(PCBF4)           PRIORITY CHAIN POINTER         @D34UDFR 27086034
00F978 00                        22584+PCBF2     DC    B'00000000'        PCBFLAG                        @D34UDFR 27067734
00F979 40                        22585+         DC    X'40'              SECOND BYTE OF PIK OF PART.    @D34UDFR 27068334
00F97A 0001                      22586+         DC    H'1'               NUMBER OF TASKS ATTACHED       @D34UDFR 27068634
00F97C 0000F980                  22587+         DC    A(PCBF1)           PRIORITY CHAIN POINTER         @D34UDFR 27086034
00F980 00                        22588+PCBF1     DC    B'00000000'        PCBFLAG                        @D34UDFR 27067734
00F981 50                        22589+         DC    X'50'              SECOND BYTE OF PIK OF PART.    @D34UDFR 27068334
00F982 0001                      22590+         DC    H'1'               NUMBER OF TASKS ATTACHED       @D34UDFR 27068634
00F984 00000000                  22591+         DC    F'0'               END OF CHAIN INDICATOR         @D34UDFR 27110034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 22593+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 27166034
                                 22594+*                                                                             * 27174034
                                 22595+*        SVC ADDRESS TABLE.                                                   * 27182034
                                 22596+*                                                                             * 27190034
                                 22597+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 27198034

00F988                           22599+SVCTAB   DS    0F                    ALIGN ON FULL WORD     @D34RDFG 27214034
00F988 0400D3C4                  22600+         DC    AL1(LIOS),AL3(SVC00)  EXCP                   @D34RDFG 27222034
00F98C 0C00E1E6                  22601+         DC    AL1(LPGM),AL3(SVC01)  LOAD AND EX. PP PHASE  @D34RDFG 27230034
00F990 0C00E20C                  22602+         DC    AL1(LPGM),AL3(SVC02)  LOAD AND EX. B-TRANS.  @D34RDFG 27238034
00F994 0800DFAC                  22603+         DC    AL1(LIOS2),AL3(SVC03) FORCE DEQUEUE          @DY12235 27246034
00F998 0C00E2FE                  22604+         DC    AL1(LPGM),AL3(SVC04)  LOAD PP PHASE          @D34RDFG 27254034
00F99C 1000E496                  22605+         DC    AL1(LERP),AL3(SVC05)  MVCOM/LOAD A-TRANS.    @D34RDFG 27262034
00F9A0 1400E724                  22606+         DC    AL1(LAP),AL3(SVC06)   AB CANCEL              @D34RDFG 27302034
00F9A4 1400E88E                  22607+         DC    AL1(LAP),AL3(SVC07)   WAIT                   @D34RDFG 27318034
00F9A8 0C00E326                  22608+         DC    AL1(LPGM),AL3(SVC08)  FROM B-TRANSIENT       @D34RDFG 27326034
00F9AC 0C00E342                  22609+         DC    AL1(LPGM),AL3(SVC09)  BACK TO B-TRANSIENT    @D34RDFG 27334034
00F9B0 3000B12C                  22610+         DC    AL1(LSVCX),AL3(SVC10) SETIME                 @D34RDFG 27374034
00F9B4 0C00E364                  22611+         DC    AL1(LPGM),AL3(SVC11)  RETURN FROM B-TRANS.   @D34RDFG 27390034
00F9B8 0C00E392                  22612+         DC    AL1(LPGM),AL3(SVC12)  MODIFY COMREG          @D34RDFG 27398034
00F9BC 0C00E40A                  22613+         DC    AL1(LPGM),AL3(SVC13)  MODIFY COMREG          @D34RDFG 27406034
00F9C0 00000A0A                  22614+         DC    A(ERR10) .        EOJ                        @D34SDAP 27414034
00F9C4 0400DCEA                  22615+         DC    AL1(LIOS),AL3(SVC15)  SYSTEM TASK EXCP       @D34RDFG 27422034
00F9C8 1400EF94                  22616+         DC    AL1(LAP),AL3(SVC16)   STXIT PC               @D34RDFG 27438034
00F9CC 1400EF9C                  22617+         DC    AL1(LAP),AL3(SVC17)   EXIT PC                @D34RDFG 27446034
00F9D0 1400EFCC                  22618+         DC    AL1(LAP),AL3(SVC18)   STXIT IT               @D34RDFG 27526034
00F9D4 1400EFD8                  22619+         DC    AL1(LAP),AL3(SVC19)   EXIT IT                @D34RDFG 27534034
00F9D8 1400EFF8                  22620+         DC    AL1(LAP),AL3(SVC20)   STXIT OC               @D34RDFG 27582034
00F9DC 1400F000                  22621+         DC    AL1(LAP),AL3(SVC21)   EXIT OC                @D34RDFG 27590034
00F9E0 1400E8A4                  22622+         DC    AL1(LAP),AL3(SVC22)   DIS./EN.FOR INTERRUPTS @D34RDFG 27638034
00F9E4 0C00E47A                  22623+         DC    AL1(LPGM),AL3(SVC23)  LOAD PHASE HEADER      @D34RDFG 27646034
00F9E8 3000B0FC                  22624+         DC    AL1(LSVCX),AL3(SVC24) SETIME                 @D34RDFG 27686034
00F9EC 0400DDCE                  22625+         DC    AL1(LIOS),AL3(SVC25)  HALT I/O FOR TP        @D34RDFG 27710034
00F9F0 00001052                  22626+         DC    A(SVC26) .        VALIDATE ADDRESS LIMITS    @D34SDAP 27718034
00F9F4 0400DDCE                  22627+         DC    AL1(LIOS),AL3(SVC27)  SPEC.HALT I/O FOR TP   @D34RDFG 27726034
00F9F8 000009EA                  22628+         DC    A(ERR21) .        UNUSED                     @D34SDAP 27782034
00F9FC 1400E8DC                  22629+         DC    AL1(LAP),AL3(SVC29)   WAITM                  @D34RDFG 27798034
00FA00 000009EA                  22630+         DC    A(ERR21) .        NO QTAM SUPPORT            @D34SDAP 27886034
00FA04 000009EA                  22631+         DC    A(ERR21) .        NO QTAM SUPPORT            @D34SDAP 27894034
00FA08 000009EA                  22632+         DC    A(ERR21) .        NO QTAM SUPPORT            @D34SDAP 27902034
00FA0C 00001126                  22633+CMRGSVC  DC    A(SVC59) .        COMRG MACRO                @D34SDAP 27918034
                                 22634+*        DC    A(SVC33) IS RESTORED AFTER INIT. OF DAT AT IPL TIME      27926034
00FA10 3400B22A                  22635+         DC    AL1(LSVCX2),AL3(SVC34)GETIME                 @D34RDFG 27934034
00FA14 000009EA                  22636+         DC    A(ERR21) .        NO TRACK HOLD SUPPORT      @D34SDAP 27982034
00FA18 000009EA                  22637+         DC    A(ERR21) .        NO TRACK HOLD SUPPORT      @D34SDAP 27990034
00FA1C 1400F01A                  22638+         DC    AL1(LAP),AL3(SVC37)   STXIT AB               @D34RDFG 28014034
00FA20 1400E910                  22639+         DC    AL1(LAP),AL3(SVC38)   ATTACH                 @D34RDFG 28062034
00FA24 1400EA6A                  22640+         DC    AL1(LAP),AL3(SVC39)   DETACH                 @D34RDFG 28070034
00FA28 1400EC5E                  22641+         DC    AL1(LAP),AL3(SVC40)   POST                   @D34RDFG 28078034
00FA2C 1C00F478                  22642+         DC    AL1(LRM),AL3(SVC41)   DEQ                    @D34RDFG 28086034
00FA30 1C00F43C                  22643+         DC    AL1(LRM),AL3(SVC42)   ENQ                    @D34RDFG 28094034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00FA34 000009EA                   22644+         DC    A(ERR21) .         SDR SVC INVALID              @D34SDAP 28166034
00FA38 3400B466                   22645+         DC    AL1(LSVCX2),AL3(SVC44)   OBR RECORD REQUEST    @D34RDFG 28174034
00FA3C 000009EA                   22646+         DC    A(ERR21) .         NO EMULATOR SUPPORT          @D34SDAP 28214034
00FA40 0000107E                   22647+         DC    A(SVC46) .         OLTEP IN SUPERVISOR STATE    @D34SDAP 28238034
00FA44 000009EA                   22648+         DC    A(ERR21) .         NO MICR SUPPORT              @D34SDAP 28310034
00FA48 00001094                   22649+         DC    A(SVC48) .         CRT READ - WRITE             @D34SDAP 28334034
00FA4C 000009EA                   22650+         DC    A(ERR21)                NO VTAM SUPPORT ERROR   @D34SDAP 28438034
00FA50 0000402A                   22651+         DC    A(SVC50)                FORCE CHNL SCHEDULER    @DY13765 28454034
00FA54 0C00E48A                   22652+         DC    AL1(LPGM),AL3(SVC51)    PROVIDE HEADER INFORM.  @D34RDFG 28462034
00FA58 3400B532                   22653+         DC    AL1(LSVCX2),AL3(SVC52)  TEST TIMER              @D34RDFG 28478034
00FA5C 000009EA                   22654+         DC    A(ERR21)                ILLEGAL SVC             @D34SDAP 28582034
00FA60 200089FC                   22655+         DC    AL1(LPMGR),AL3(SVFREAL) FREEREAL                @D34RDFG 28598034
00FA64 200087F6                   22656+         DC    AL1(LPMGR),AL3(SVGREAL) GETREAL FOR SDAID/370   @D34RDFG 28606034
00FA68 000010C6                   22657+         DC    A(SVC56)             ADDRESS SVC56 'CP CLOSE XXX'       SGA00180
00FA6C 1400ED30                   22658+         DC    AL1(LAP),AL3(SVC57) SET PRTY. SVC                @D34UDFR 28622034
00FA70 200090CC                   22659+         DC    AL1(LPMGR),AL3(CLEARPAR) JOB CTL SVC             @D34RDFG 28630034
00FA74 00001126                   22660+         DC    A(SVC59) .         JOB CTL SVC                  @D34SDAP 28638034
00FA78 0000137E                   22661+         DC    A(SVC60) .         GETDADR                      @D34SDAP 28646034
00FA7C 2400B824                   22662+         DC    AL1(LAM),AL3(GETVIS)    SVC61                   @D34RDFG 28686034
00FA80 2400B9C2                   22663+         DC    AL1(LAM),AL3(FREEVIS)   SVC62                   @D34RDFG 28694034
00FA84 1C00F4DC                   22664+         DC    AL1(LRM),AL3(SVC63CTD)  USE                     @D34RDFG 28710034
00FA88 1C00F7EC                   22665+         DC    AL1(LRM),AL3(SVC64CTD)  RELEASE                 @D34RDFG 28718034
00FA8C 2400B63C                   22666+         DC    AL1(LAM),AL3(CDLOAD)    CDLOAD                  @D34RDFG 28758034
00FA90 00001132                   22667+         DC    A(SVC66) .         RUNMODE                      @D34SDAP 28766034
00FA94 20009500                   22668+         DC    AL1(LPMGR),AL3(STRTPFIX) PFIX                   @D34RDFG 28806034
00FA98 20009384                   22669+         DC    AL1(LPMGR),AL3(STARTPFR) PFREE                  @D34RDFG 28814034
00FA9C 0000115A                   22670+         DC    A(SVC69) .         REALAD                       @D34SDAP 28854034
00FAA0 0000118A                   22671+         DC    A(SVC70) .         VIRTAD                       @D34SDAP 28862034
00FAA4 000011F0                   22672+         DC    A(SVC71)           SETPFA                       @D34NDFS 28893034
00FAA8 000079F4                   22673+         DC    A(CBUF) .          GETCBUF/FREECBUF             @D34RDFG 28926034
00FAAC 000009EA                   22674+         DC    A(ERR21) .         ILLEGAL SVC 73               @D34SDAP 28950034
00FAB0 20009468                   22675+         DC    AL1(LPMGR),AL3(STPFIXRS) PFIX FOR RESTART       @D34RDFG 29006034
00FAB4 2800D0AC                   22676+         DC    AL1(LCVRT),AL3(SECTCAL) SECTOR CONVERT SVC      @D34RDFG 29030034
00FAB8 0400DCE6                   22677+         DC    AL1(LIOS),AL3(SVC76) RMSR/CP INTERFACE          @D34RDFG 29070034
00FABC 00001212                   22678+         DC    A(SVC77) .         TRANSCSW                     @D34SDAP 29078034
00FAC0 1400EE10                   22679+         DC    AL1(LAP),AL3(SVC78)  CHAP                       @D34RDFG 29094034
00FAC4 1400EE4A                   22680+         DC    AL1(LAP),AL3(SVC79)  SYNCH                      @D34RDFG 29142034
00FAC8 1400EED8                   22681+         DC    AL1(LAP),AL3(SVC80)  SETT                       @D34RDFG 29190034
00FACC 1400EF08                   22682+         DC    AL1(LAP),AL3(SVC81)  TESTT                      @D34RDFG 29198034
00FAD0 000009EA000009EA           22683+         DC    3A(ERR21) .        ILLEGAL SVC'S 82-84          @D34SDAP 29238034
00FADC 2C00BD20                   22684+         DC    AL1(LPOPT),AL3(RELPAGE) MACRO RELPAG            @D34RDFG 29278034
00FAE0 2C00BD18                   22685+         DC    AL1(LPOPT),AL3(PAGEOUT) MACRO FCEPGOUT          @D34RDFG 29286034
00FAE4 2C00BF0E                   22686+         DC    AL1(LPOPT),AL3(SVPGIN)  MACRO PAGEIN            @D34RDFG 29294034
00FAE8 00001224                   22687+         DC    A(SVC088)               TPIN                    @D34NDFS 29318034
00FAEC 0000125A                   22688+         DC    A(SVC089)               TPOUT                   @D34SDAP 29326034
00FAF0 00001264                   22689+         DC    A(SVC90)           SUPPLY USER ACCOUNT INFO     @D34SDAP 29406034
00FAF4 00001282                   22690+         DC    A(SVC91)           WRITE EXEC. ACCOUNT RECORD   @D34SDAP 29414034
00FAF8 1800F0F8                   22691+         DC    AL1(LXECB),AL3(SVC92) XECBTAB MACRO             @D34XDFS 29438034
00FAFC 1800F2C2                   22692+         DC    AL1(LXECB),AL3(SVC93) XPOST MACRO               @D34XDFS 29444034
00FB00 1800F2EA                   22693+         DC    AL1(LXECB),AL3(SVC94) XWAIT MACRO               @D34XDFS 29450034
00FB04 3800B5DE                   22694+         DC    AL1(LSVC95),AL3(SVC95)  EXIT AB                 @D34RDFG 29518034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00FB08 1400EF78                   22695+         DC    AL1(LAP),AL3(SVC96)    EXIT TT                 @D34RDFG 29558034
00FB0C 1400EF6C                   22696+         DC    AL1(LAP),AL3(SVC97)    STXIT TT                @D34RDFG 29566034
00FB10 000009EA                   22697+         DC    A(ERR21)           ILLEGAL SVC98               @D34YDWK 29603034
                         0FB14    22698+SVCTABND EQU   * .                END OF SVC TABLE                  EM 29606034
                         00004    22699+LIOS     EQU   IOSBASE-SVCBASE                                 @D34RDFG 29614034
                         00008    22700+LIOS2    EQU   IOSBASE2-SVCBASE                                @DY12235 29618034
                         0000C    22701+LPGM     EQU   PGMBASE-SVCBASE                                 @D34RDFG 29622034
                         00010    22702+LERP     EQU   ERPBASE-SVCBASE                                 @D34RDFG 29630034
                         00014    22703+LAP      EQU   APBASE-SVCBASE                                  @D34RDFG 29638034
                         0001C    22704+LRM      EQU   RMBASE-SVCBASE                                  @D34RDFG 29646034
                         00020    22705+LPMGR    EQU   PMGRENT-SVCBASE                                 @D34RDFG 29654034
                         00024    22706+LAM      EQU   AMENTRY-SVCBASE                                 @D34RDFG 29670034
                         00028    22707+LCVRT    EQU   CVRTBASE-SVCBASE                                @D34RDFG 29694034
                         0002C    22708+LPOPT    EQU   APAGEOPT-SVCBASE                                @D34RDFG 29718034
                         00030    22709+LSVCX    EQU   ASVCX-SVCBASE                                   @D34RDFG 29734034
                         00034    22710+LSVCX2   EQU   ASVCX2-SVCBASE                                  @D34RDFG 29742034
                         00038    22711+LSVC95   EQU   ASVC95X-SVCBASE                                 @D34RDFG 29758034
                         00018    22712+LXECB    EQU   XECBBASE-SVCBASE                                @D34XDFS 29770034

                                  22714+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 29782034
                                  22715+*                                                                                       * 29790034
                                  22716+*        CHANNEL QUEUE                                                                  * 29798034
                                  22717+*                                                                                       * 29806034
                                  22718+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 29814034

00FB18                            22720+CHANQ    DS    0D                CHANNEL QUEUE                 @DY14542 29830034
00FB18 01                         22721+         DC    AL1(1)    .       CHANNEL QUEUE CHAIN                    29862034
00FB19 000000FFFFFFFF             22722+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB20 02                         22723+         DC    AL1(2)    .       CHANNEL QUEUE CHAIN                    29862034
00FB21 000000FFFFFFFF             22724+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB28 03                         22725+         DC    AL1(3)    .       CHANNEL QUEUE CHAIN                    29862034
00FB29 000000FFFFFFFF             22726+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB30 04                         22727+         DC    AL1(4)    .       CHANNEL QUEUE CHAIN                    29862034
00FB31 000000FFFFFFFF             22728+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB38 05                         22729+         DC    AL1(5)    .       CHANNEL QUEUE CHAIN                    29862034
00FB39 000000FFFFFFFF             22730+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB40 06                         22731+         DC    AL1(6)    .       CHANNEL QUEUE CHAIN                    29862034
00FB41 000000FFFFFFFF             22732+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB48 07                         22733+         DC    AL1(7)    .       CHANNEL QUEUE CHAIN                    29862034
00FB49 000000FFFFFFFF             22734+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB50 08                         22735+         DC    AL1(8)    .       CHANNEL QUEUE CHAIN                    29862034
00FB51 000000FFFFFFFF             22736+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB58 09                         22737+         DC    AL1(9)    .       CHANNEL QUEUE CHAIN                    29862034
00FB59 000000FFFFFFFF             22738+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB60 0A                         22739+         DC    AL1(10)   .       CHANNEL QUEUE CHAIN                    29862034
00FB61 000000FFFFFFFF             22740+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB68 0B                         22741+         DC    AL1(11)   .       CHANNEL QUEUE CHAIN                    29862034
00FB69 000000FFFFFFFF             22742+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB70 0C                         22743+         DC    AL1(12)   .       CHANNEL QUEUE CHAIN                    29862034
00FB71 000000FFFFFFFF             22744+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00FB78 0D                        22745+         DC    AL1(13)   .        CHANNEL QUEUE CHAIN                  29862034
00FB79 000000FFFFFFFF            22746+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB80 0E                        22747+         DC    AL1(14)   .        CHANNEL QUEUE CHAIN                  29862034
00FB81 000000FFFFFFFF            22748+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB88 0F                        22749+         DC    AL1(15)   .        CHANNEL QUEUE CHAIN                  29862034
00FB89 000000FFFFFFFF            22750+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB90 10                        22751+         DC    AL1(16)   .        CHANNEL QUEUE CHAIN                  29862034
00FB91 000000FFFFFFFF            22752+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FB98 11                        22753+         DC    AL1(17)   .        CHANNEL QUEUE CHAIN                  29862034
00FB99 000000FFFFFFFF            22754+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBA0 12                        22755+         DC    AL1(18)   .        CHANNEL QUEUE CHAIN                  29862034
00FBA1 000000FFFFFFFF            22756+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBA8 13                        22757+         DC    AL1(19)   .        CHANNEL QUEUE CHAIN                  29862034
00FBA9 000000FFFFFFFF            22758+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBB0 14                        22759+         DC    AL1(20)   .        CHANNEL QUEUE CHAIN                  29862034
00FBB1 000000FFFFFFFF            22760+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBB8 15                        22761+         DC    AL1(21)   .        CHANNEL QUEUE CHAIN                  29862034
00FBB9 000000FFFFFFFF            22762+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBC0 16                        22763+         DC    AL1(22)   .        CHANNEL QUEUE CHAIN                  29862034
00FBC1 000000FFFFFFFF            22764+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBC8 17                        22765+         DC    AL1(23)   .        CHANNEL QUEUE CHAIN                  29862034
00FBC9 000000FFFFFFFF            22766+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBD0 18                        22767+         DC    AL1(24)   .        CHANNEL QUEUE CHAIN                  29862034
00FBD1 000000FFFFFFFF            22768+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBD8 19                        22769+         DC    AL1(25)   .        CHANNEL QUEUE CHAIN                  29862034
00FBD9 000000FFFFFFFF            22770+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBE0 1A                        22771+         DC    AL1(26)   .        CHANNEL QUEUE CHAIN                  29862034
00FBE1 000000FFFFFFFF            22772+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBE8 1B                        22773+         DC    AL1(27)   .        CHANNEL QUEUE CHAIN                  29862034
00FBE9 000000FFFFFFFF            22774+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBF0 1C                        22775+         DC    AL1(28)   .        CHANNEL QUEUE CHAIN                  29862034
00FBF1 000000FFFFFFFF            22776+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FBF8 1D                        22777+         DC    AL1(29)   .        CHANNEL QUEUE CHAIN                  29862034
00FBF9 000000FFFFFFFF            22778+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC00 1E                        22779+         DC    AL1(30)   .        CHANNEL QUEUE CHAIN                  29862034
00FC01 000000FFFFFFFF            22780+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC08 1F                        22781+         DC    AL1(31)   .        CHANNEL QUEUE CHAIN                  29862034
00FC09 000000FFFFFFFF            22782+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC10 20                        22783+         DC    AL1(32)   .        CHANNEL QUEUE CHAIN                  29862034
00FC11 000000FFFFFFFF            22784+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC18 21                        22785+         DC    AL1(33)   .        CHANNEL QUEUE CHAIN                  29862034
00FC19 000000FFFFFFFF            22786+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC20 22                        22787+         DC    AL1(34)   .        CHANNEL QUEUE CHAIN                  29862034
00FC21 000000FFFFFFFF            22788+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC28 23                        22789+         DC    AL1(35)   .        CHANNEL QUEUE CHAIN                  29862034
00FC29 000000FFFFFFFF            22790+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC30 24                        22791+         DC    AL1(36)   .        CHANNEL QUEUE CHAIN                  29862034
00FC31 000000FFFFFFFF            22792+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC38 25                        22793+         DC    AL1(37)   .        CHANNEL QUEUE CHAIN                  29862034
00FC39 000000FFFFFFFF            22794+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC40 26                        22795+         DC    AL1(38)   .        CHANNEL QUEUE CHAIN                  29862034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00FC41 000000FFFFFFFF             22796+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC48 27                         22797+         DC    AL1(39)   .        CHANNEL QUEUE CHAIN                   29862034
00FC49 000000FFFFFFFF             22798+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC50 28                         22799+         DC    AL1(40)   .        CHANNEL QUEUE CHAIN                   29862034
00FC51 000000FFFFFFFF             22800+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC58 29                         22801+         DC    AL1(41)   .        CHANNEL QUEUE CHAIN                   29862034
00FC59 000000FFFFFFFF             22802+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC60 2A                         22803+         DC    AL1(42)   .        CHANNEL QUEUE CHAIN                   29862034
00FC61 000000FFFFFFFF             22804+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC68 2B                         22805+         DC    AL1(43)   .        CHANNEL QUEUE CHAIN                   29862034
00FC69 000000FFFFFFFF             22806+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC70 2C                         22807+         DC    AL1(44)   .        CHANNEL QUEUE CHAIN                   29862034
00FC71 000000FFFFFFFF             22808+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC78 2D                         22809+         DC    AL1(45)   .        CHANNEL QUEUE CHAIN                   29862034
00FC79 000000FFFFFFFF             22810+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC80 2E                         22811+         DC    AL1(46)   .        CHANNEL QUEUE CHAIN                   29862034
00FC81 000000FFFFFFFF             22812+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC88 2F                         22813+         DC    AL1(47)   .        CHANNEL QUEUE CHAIN                   29862034
00FC89 000000FFFFFFFF             22814+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC90 30                         22815+         DC    AL1(48)   .        CHANNEL QUEUE CHAIN                   29862034
00FC91 000000FFFFFFFF             22816+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FC98 31                         22817+         DC    AL1(49)   .        CHANNEL QUEUE CHAIN                   29862034
00FC99 000000FFFFFFFF             22818+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCA0 32                         22819+         DC    AL1(50)   .        CHANNEL QUEUE CHAIN                   29862034
00FCA1 000000FFFFFFFF             22820+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCA8 33                         22821+         DC    AL1(51)   .        CHANNEL QUEUE CHAIN                   29862034
00FCA9 000000FFFFFFFF             22822+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCB0 34                         22823+         DC    AL1(52)   .        CHANNEL QUEUE CHAIN                   29862034
00FCB1 000000FFFFFFFF             22824+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCB8 35                         22825+         DC    AL1(53)   .        CHANNEL QUEUE CHAIN                   29862034
00FCB9 000000FFFFFFFF             22826+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCC0 36                         22827+         DC    AL1(54)   .        CHANNEL QUEUE CHAIN                   29862034
00FCC1 000000FFFFFFFF             22828+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCC8 37                         22829+         DC    AL1(55)   .        CHANNEL QUEUE CHAIN                   29862034
00FCC9 000000FFFFFFFF             22830+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCD0 38                         22831+         DC    AL1(56)   .        CHANNEL QUEUE CHAIN                   29862034
00FCD1 000000FFFFFFFF             22832+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCD8 39                         22833+         DC    AL1(57)   .        CHANNEL QUEUE CHAIN                   29862034
00FCD9 000000FFFFFFFF             22834+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCE0 3A                         22835+         DC    AL1(58)   .        CHANNEL QUEUE CHAIN                   29862034
00FCE1 000000FFFFFFFF             22836+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCE8 3B                         22837+         DC    AL1(59)   .        CHANNEL QUEUE CHAIN                   29862034
00FCE9 000000FFFFFFFF             22838+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCF0 3C                         22839+         DC    AL1(60)   .        CHANNEL QUEUE CHAIN                   29862034
00FCF1 000000FFFFFFFF             22840+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FCF8 3D                         22841+         DC    AL1(61)   .        CHANNEL QUEUE CHAIN                   29862034
00FCF9 000000FFFFFFFF             22842+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD00 3E                         22843+         DC    AL1(62)   .        CHANNEL QUEUE CHAIN                   29862034
00FD01 000000FFFFFFFF             22844+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD08 3F                         22845+         DC    AL1(63)   .        CHANNEL QUEUE CHAIN                   29862034
00FD09 000000FFFFFFFF             22846+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00FD10 40                        22847+         DC    AL1(64)   .        CHANNEL QUEUE CHAIN                  29862034
00FD11 000000FFFFFFFF            22848+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD18 41                        22849+         DC    AL1(65)   .        CHANNEL QUEUE CHAIN                  29862034
00FD19 000000FFFFFFFF            22850+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD20 42                        22851+         DC    AL1(66)   .        CHANNEL QUEUE CHAIN                  29862034
00FD21 000000FFFFFFFF            22852+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD28 43                        22853+         DC    AL1(67)   .        CHANNEL QUEUE CHAIN                  29862034
00FD29 000000FFFFFFFF            22854+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD30 44                        22855+         DC    AL1(68)   .        CHANNEL QUEUE CHAIN                  29862034
00FD31 000000FFFFFFFF            22856+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD38 45                        22857+         DC    AL1(69)   .        CHANNEL QUEUE CHAIN                  29862034
00FD39 000000FFFFFFFF            22858+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD40 46                        22859+         DC    AL1(70)   .        CHANNEL QUEUE CHAIN                  29862034
00FD41 000000FFFFFFFF            22860+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD48 47                        22861+         DC    AL1(71)   .        CHANNEL QUEUE CHAIN                  29862034
00FD49 000000FFFFFFFF            22862+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD50 48                        22863+         DC    AL1(72)   .        CHANNEL QUEUE CHAIN                  29862034
00FD51 000000FFFFFFFF            22864+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD58 49                        22865+         DC    AL1(73)   .        CHANNEL QUEUE CHAIN                  29862034
00FD59 000000FFFFFFFF            22866+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD60 4A                        22867+         DC    AL1(74)   .        CHANNEL QUEUE CHAIN                  29862034
00FD61 000000FFFFFFFF            22868+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD68 4B                        22869+         DC    AL1(75)   .        CHANNEL QUEUE CHAIN                  29862034
00FD69 000000FFFFFFFF            22870+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD70 4C                        22871+         DC    AL1(76)   .        CHANNEL QUEUE CHAIN                  29862034
00FD71 000000FFFFFFFF            22872+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD78 4D                        22873+         DC    AL1(77)   .        CHANNEL QUEUE CHAIN                  29862034
00FD79 000000FFFFFFFF            22874+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD80 4E                        22875+         DC    AL1(78)   .        CHANNEL QUEUE CHAIN                  29862034
00FD81 000000FFFFFFFF            22876+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD88 4F                        22877+         DC    AL1(79)   .        CHANNEL QUEUE CHAIN                  29862034
00FD89 000000FFFFFFFF            22878+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD90 50                        22879+         DC    AL1(80)   .        CHANNEL QUEUE CHAIN                  29862034
00FD91 000000FFFFFFFF            22880+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FD98 51                        22881+         DC    AL1(81)   .        CHANNEL QUEUE CHAIN                  29862034
00FD99 000000FFFFFFFF            22882+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDA0 52                        22883+         DC    AL1(82)   .        CHANNEL QUEUE CHAIN                  29862034
00FDA1 000000FFFFFFFF            22884+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDA8 53                        22885+         DC    AL1(83)   .        CHANNEL QUEUE CHAIN                  29862034
00FDA9 000000FFFFFFFF            22886+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDB0 54                        22887+         DC    AL1(84)   .        CHANNEL QUEUE CHAIN                  29862034
00FDB1 000000FFFFFFFF            22888+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDB8 55                        22889+         DC    AL1(85)   .        CHANNEL QUEUE CHAIN                  29862034
00FDB9 000000FFFFFFFF            22890+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDC0 56                        22891+         DC    AL1(86)   .        CHANNEL QUEUE CHAIN                  29862034
00FDC1 000000FFFFFFFF            22892+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDC8 57                        22893+         DC    AL1(87)   .        CHANNEL QUEUE CHAIN                  29862034
00FDC9 000000FFFFFFFF            22894+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDD0 58                        22895+         DC    AL1(88)   .        CHANNEL QUEUE CHAIN                  29862034
00FDD1 000000FFFFFFFF            22896+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDD8 59                        22897+         DC    AL1(89)   .        CHANNEL QUEUE CHAIN                  29862034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00FDD9 000000FFFFFFFF             22898+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDE0 5A                         22899+         DC    AL1(90)   .        CHANNEL QUEUE CHAIN                   29862034
00FDE1 000000FFFFFFFF             22900+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDE8 5B                         22901+         DC    AL1(91)   .        CHANNEL QUEUE CHAIN                   29862034
00FDE9 000000FFFFFFFF             22902+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDF0 5C                         22903+         DC    AL1(92)   .        CHANNEL QUEUE CHAIN                   29862034
00FDF1 000000FFFFFFFF             22904+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FDF8 5D                         22905+         DC    AL1(93)   .        CHANNEL QUEUE CHAIN                   29862034
00FDF9 000000FFFFFFFF             22906+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE00 5E                         22907+         DC    AL1(94)   .        CHANNEL QUEUE CHAIN                   29862034
00FE01 000000FFFFFFFF             22908+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE08 5F                         22909+         DC    AL1(95)   .        CHANNEL QUEUE CHAIN                   29862034
00FE09 000000FFFFFFFF             22910+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE10 60                         22911+         DC    AL1(96)   .        CHANNEL QUEUE CHAIN                   29862034
00FE11 000000FFFFFFFF             22912+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE18 61                         22913+         DC    AL1(97)   .        CHANNEL QUEUE CHAIN                   29862034
00FE19 000000FFFFFFFF             22914+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE20 62                         22915+         DC    AL1(98)   .        CHANNEL QUEUE CHAIN                   29862034
00FE21 000000FFFFFFFF             22916+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE28 63                         22917+         DC    AL1(99)   .        CHANNEL QUEUE CHAIN                   29862034
00FE29 000000FFFFFFFF             22918+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE30 64                         22919+         DC    AL1(100)  .        CHANNEL QUEUE CHAIN                   29862034
00FE31 000000FFFFFFFF             22920+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE38 65                         22921+         DC    AL1(101)  .        CHANNEL QUEUE CHAIN                   29862034
00FE39 000000FFFFFFFF             22922+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE40 66                         22923+         DC    AL1(102)  .        CHANNEL QUEUE CHAIN                   29862034
00FE41 000000FFFFFFFF             22924+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE48 67                         22925+         DC    AL1(103)  .        CHANNEL QUEUE CHAIN                   29862034
00FE49 000000FFFFFFFF             22926+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE50 68                         22927+         DC    AL1(104)  .        CHANNEL QUEUE CHAIN                   29862034
00FE51 000000FFFFFFFF             22928+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE58 69                         22929+         DC    AL1(105)  .        CHANNEL QUEUE CHAIN                   29862034
00FE59 000000FFFFFFFF             22930+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE60 6A                         22931+         DC    AL1(106)  .        CHANNEL QUEUE CHAIN                   29862034
00FE61 000000FFFFFFFF             22932+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE68 6B                         22933+         DC    AL1(107)  .        CHANNEL QUEUE CHAIN                   29862034
00FE69 000000FFFFFFFF             22934+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE70 6C                         22935+         DC    AL1(108)  .        CHANNEL QUEUE CHAIN                   29862034
00FE71 000000FFFFFFFF             22936+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE78 6D                         22937+         DC    AL1(109)  .        CHANNEL QUEUE CHAIN                   29862034
00FE79 000000FFFFFFFF             22938+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE80 6E                         22939+         DC    AL1(110)  .        CHANNEL QUEUE CHAIN                   29862034
00FE81 000000FFFFFFFF             22940+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE88 6F                         22941+         DC    AL1(111)  .        CHANNEL QUEUE CHAIN                   29862034
00FE89 000000FFFFFFFF             22942+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE90 70                         22943+         DC    AL1(112)  .        CHANNEL QUEUE CHAIN                   29862034
00FE91 000000FFFFFFFF             22944+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FE98 71                         22945+         DC    AL1(113)  .        CHANNEL QUEUE CHAIN                   29862034
00FE99 000000FFFFFFFF             22946+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FEA0 72                         22947+         DC    AL1(114)  .        CHANNEL QUEUE CHAIN                   29862034
00FEA1 000000FFFFFFFF             22948+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00FEA8 73                        22949+         DC    AL1(115)  .        CHANNEL QUEUE CHAIN                  29862034
00FEA9 000000FFFFFFFF            22950+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FEB0 74                        22951+         DC    AL1(116)  .        CHANNEL QUEUE CHAIN                  29862034
00FEB1 000000FFFFFFFF            22952+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FEB8 75                        22953+         DC    AL1(117)  .        CHANNEL QUEUE CHAIN                  29862034
00FEB9 000000FFFFFFFF            22954+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FEC0 76                        22955+         DC    AL1(118)  .        CHANNEL QUEUE CHAIN                  29862034
00FEC1 000000FFFFFFFF            22956+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FEC8 77                        22957+         DC    AL1(119)  .        CHANNEL QUEUE CHAIN                  29862034
00FEC9 000000FFFFFFFF            22958+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FED0 78                        22959+         DC    AL1(120)  .        CHANNEL QUEUE CHAIN                  29862034
00FED1 000000FFFFFFFF            22960+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FED8 79                        22961+         DC    AL1(121)  .        CHANNEL QUEUE CHAIN                  29862034
00FED9 000000FFFFFFFF            22962+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FEE0 7A                        22963+         DC    AL1(122)  .        CHANNEL QUEUE CHAIN                  29862034
00FEE1 000000FFFFFFFF            22964+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FEE8 7B                        22965+         DC    AL1(123)  .        CHANNEL QUEUE CHAIN                  29862034
00FEE9 000000FFFFFFFF            22966+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FEF0 7C                        22967+         DC    AL1(124)  .        CHANNEL QUEUE CHAIN                  29862034
00FEF1 000000FFFFFFFF            22968+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FEF8 7D                        22969+         DC    AL1(125)  .        CHANNEL QUEUE CHAIN                  29862034
00FEF9 000000FFFFFFFF            22970+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF00 7E                        22971+         DC    AL1(126)  .        CHANNEL QUEUE CHAIN                  29862034
00FF01 000000FFFFFFFF            22972+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF08 7F                        22973+         DC    AL1(127)  .        CHANNEL QUEUE CHAIN                  29862034
00FF09 000000FFFFFFFF            22974+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF10 80                        22975+         DC    AL1(128)  .        CHANNEL QUEUE CHAIN                  29862034
00FF11 000000FFFFFFFF            22976+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF18 81                        22977+         DC    AL1(129)  .        CHANNEL QUEUE CHAIN                  29862034
00FF19 000000FFFFFFFF            22978+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF20 82                        22979+         DC    AL1(130)  .        CHANNEL QUEUE CHAIN                  29862034
00FF21 000000FFFFFFFF            22980+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF28 83                        22981+         DC    AL1(131)  .        CHANNEL QUEUE CHAIN                  29862034
00FF29 000000FFFFFFFF            22982+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF30 84                        22983+         DC    AL1(132)  .        CHANNEL QUEUE CHAIN                  29862034
00FF31 000000FFFFFFFF            22984+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF38 85                        22985+         DC    AL1(133)  .        CHANNEL QUEUE CHAIN                  29862034
00FF39 000000FFFFFFFF            22986+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF40 86                        22987+         DC    AL1(134)  .        CHANNEL QUEUE CHAIN                  29862034
00FF41 000000FFFFFFFF            22988+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF48 87                        22989+         DC    AL1(135)  .        CHANNEL QUEUE CHAIN                  29862034
00FF49 000000FFFFFFFF            22990+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF50 88                        22991+         DC    AL1(136)  .        CHANNEL QUEUE CHAIN                  29862034
00FF51 000000FFFFFFFF            22992+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF58 89                        22993+         DC    AL1(137)  .        CHANNEL QUEUE CHAIN                  29862034
00FF59 000000FFFFFFFF            22994+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF60 8A                        22995+         DC    AL1(138)  .        CHANNEL QUEUE CHAIN                  29862034
00FF61 000000FFFFFFFF            22996+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF68 8B                        22997+         DC    AL1(139)  .        CHANNEL QUEUE CHAIN                  29862034
00FF69 000000FFFFFFFF            22998+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF70 8C                        22999+         DC    AL1(140)  .        CHANNEL QUEUE CHAIN                  29862034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00FF71 000000FFFFFFFF             23000+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF78 8D                         23001+         DC    AL1(141)  .        CHANNEL QUEUE CHAIN                    29862034
00FF79 000000FFFFFFFF             23002+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF80 8E                         23003+         DC    AL1(142)  .        CHANNEL QUEUE CHAIN                    29862034
00FF81 000000FFFFFFFF             23004+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF88 8F                         23005+         DC    AL1(143)  .        CHANNEL QUEUE CHAIN                    29862034
00FF89 000000FFFFFFFF             23006+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF90 90                         23007+         DC    AL1(144)  .        CHANNEL QUEUE CHAIN                    29862034
00FF91 000000FFFFFFFF             23008+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FF98 91                         23009+         DC    AL1(145)  .        CHANNEL QUEUE CHAIN                    29862034
00FF99 000000FFFFFFFF             23010+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFA0 92                         23011+         DC    AL1(146)  .        CHANNEL QUEUE CHAIN                    29862034
00FFA1 000000FFFFFFFF             23012+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFA8 93                         23013+         DC    AL1(147)  .        CHANNEL QUEUE CHAIN                    29862034
00FFA9 000000FFFFFFFF             23014+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFB0 94                         23015+         DC    AL1(148)  .        CHANNEL QUEUE CHAIN                    29862034
00FFB1 000000FFFFFFFF             23016+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFB8 95                         23017+         DC    AL1(149)  .        CHANNEL QUEUE CHAIN                    29862034
00FFB9 000000FFFFFFFF             23018+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFC0 96                         23019+         DC    AL1(150)  .        CHANNEL QUEUE CHAIN                    29862034
00FFC1 000000FFFFFFFF             23020+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFC8 97                         23021+         DC    AL1(151)  .        CHANNEL QUEUE CHAIN                    29862034
00FFC9 000000FFFFFFFF             23022+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFD0 98                         23023+         DC    AL1(152)  .        CHANNEL QUEUE CHAIN                    29862034
00FFD1 000000FFFFFFFF             23024+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFD8 99                         23025+         DC    AL1(153)  .        CHANNEL QUEUE CHAIN                    29862034
00FFD9 000000FFFFFFFF             23026+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFE0 9A                         23027+         DC    AL1(154)  .        CHANNEL QUEUE CHAIN                    29862034
00FFE1 000000FFFFFFFF             23028+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFE8 9B                         23029+         DC    AL1(155)  .        CHANNEL QUEUE CHAIN                    29862034
00FFE9 000000FFFFFFFF             23030+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFF0 9C                         23031+         DC    AL1(156)  .        CHANNEL QUEUE CHAIN                    29862034
00FFF1 000000FFFFFFFF             23032+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
00FFF8 9D                         23033+         DC    AL1(157)  .        CHANNEL QUEUE CHAIN                    29862034
00FFF9 000000FFFFFFFF             23034+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010000 9E                         23035+         DC    AL1(158)  .        CHANNEL QUEUE CHAIN                    29862034
010001 000000FFFFFFFF             23036+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010008 9F                         23037+         DC    AL1(159)  .        CHANNEL QUEUE CHAIN                    29862034
010009 000000FFFFFFFF             23038+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010010 A0                         23039+         DC    AL1(160)  .        CHANNEL QUEUE CHAIN                    29862034
010011 000000FFFFFFFF             23040+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010018 A1                         23041+         DC    AL1(161)  .        CHANNEL QUEUE CHAIN                    29862034
010019 000000FFFFFFFF             23042+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010020 A2                         23043+         DC    AL1(162)  .        CHANNEL QUEUE CHAIN                    29862034
010021 000000FFFFFFFF             23044+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010028 A3                         23045+         DC    AL1(163)  .        CHANNEL QUEUE CHAIN                    29862034
010029 000000FFFFFFFF             23046+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010030 A4                         23047+         DC    AL1(164)  .        CHANNEL QUEUE CHAIN                    29862034
010031 000000FFFFFFFF             23048+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010038 A5                         23049+         DC    AL1(165)  .        CHANNEL QUEUE CHAIN                    29862034
010039 000000FFFFFFFF             23050+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

010040 A6                        23051+         DC    AL1(166)  .        CHANNEL QUEUE CHAIN                  29862034
010041 000000FFFFFFFF            23052+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010048 A7                        23053+         DC    AL1(167)  .        CHANNEL QUEUE CHAIN                  29862034
010049 000000FFFFFFFF            23054+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010050 A8                        23055+         DC    AL1(168)  .        CHANNEL QUEUE CHAIN                  29862034
010051 000000FFFFFFFF            23056+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010058 A9                        23057+         DC    AL1(169)  .        CHANNEL QUEUE CHAIN                  29862034
010059 000000FFFFFFFF            23058+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010060 AA                        23059+         DC    AL1(170)  .        CHANNEL QUEUE CHAIN                  29862034
010061 000000FFFFFFFF            23060+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010068 AB                        23061+         DC    AL1(171)  .        CHANNEL QUEUE CHAIN                  29862034
010069 000000FFFFFFFF            23062+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010070 AC                        23063+         DC    AL1(172)  .        CHANNEL QUEUE CHAIN                  29862034
010071 000000FFFFFFFF            23064+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010078 AD                        23065+         DC    AL1(173)  .        CHANNEL QUEUE CHAIN                  29862034
010079 000000FFFFFFFF            23066+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010080 AE                        23067+         DC    AL1(174)  .        CHANNEL QUEUE CHAIN                  29862034
010081 000000FFFFFFFF            23068+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010088 AF                        23069+         DC    AL1(175)  .        CHANNEL QUEUE CHAIN                  29862034
010089 000000FFFFFFFF            23070+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010090 B0                        23071+         DC    AL1(176)  .        CHANNEL QUEUE CHAIN                  29862034
010091 000000FFFFFFFF            23072+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010098 B1                        23073+         DC    AL1(177)  .        CHANNEL QUEUE CHAIN                  29862034
010099 000000FFFFFFFF            23074+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100A0 B2                        23075+         DC    AL1(178)  .        CHANNEL QUEUE CHAIN                  29862034
0100A1 000000FFFFFFFF            23076+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100A8 B3                        23077+         DC    AL1(179)  .        CHANNEL QUEUE CHAIN                  29862034
0100A9 000000FFFFFFFF            23078+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100B0 B4                        23079+         DC    AL1(180)  .        CHANNEL QUEUE CHAIN                  29862034
0100B1 000000FFFFFFFF            23080+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100B8 B5                        23081+         DC    AL1(181)  .        CHANNEL QUEUE CHAIN                  29862034
0100B9 000000FFFFFFFF            23082+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100C0 B6                        23083+         DC    AL1(182)  .        CHANNEL QUEUE CHAIN                  29862034
0100C1 000000FFFFFFFF            23084+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100C8 B7                        23085+         DC    AL1(183)  .        CHANNEL QUEUE CHAIN                  29862034
0100C9 000000FFFFFFFF            23086+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100D0 B8                        23087+         DC    AL1(184)  .        CHANNEL QUEUE CHAIN                  29862034
0100D1 000000FFFFFFFF            23088+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100D8 B9                        23089+         DC    AL1(185)  .        CHANNEL QUEUE CHAIN                  29862034
0100D9 000000FFFFFFFF            23090+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100E0 BA                        23091+         DC    AL1(186)  .        CHANNEL QUEUE CHAIN                  29862034
0100E1 000000FFFFFFFF            23092+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100E8 BB                        23093+         DC    AL1(187)  .        CHANNEL QUEUE CHAIN                  29862034
0100E9 000000FFFFFFFF            23094+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100F0 BC                        23095+         DC    AL1(188)  .        CHANNEL QUEUE CHAIN                  29862034
0100F1 000000FFFFFFFF            23096+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
0100F8 BD                        23097+         DC    AL1(189)  .        CHANNEL QUEUE CHAIN                  29862034
0100F9 000000FFFFFFFF            23098+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010100 BE                        23099+         DC    AL1(190)  .        CHANNEL QUEUE CHAIN                  29862034
010101 000000FFFFFFFF            23100+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010108 BF                        23101+         DC    AL1(191)  .        CHANNEL QUEUE CHAIN                  29862034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

010109 000000FFFFFFFF             23102+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010110 C0                         23103+         DC    AL1(192)  .        CHANNEL QUEUE CHAIN                   29862034
010111 000000FFFFFFFF             23104+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010118 C1                         23105+         DC    AL1(193)  .        CHANNEL QUEUE CHAIN                   29862034
010119 000000FFFFFFFF             23106+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010120 C2                         23107+         DC    AL1(194)  .        CHANNEL QUEUE CHAIN                   29862034
010121 000000FFFFFFFF             23108+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010128 C3                         23109+         DC    AL1(195)  .        CHANNEL QUEUE CHAIN                   29862034
010129 000000FFFFFFFF             23110+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010130 C4                         23111+         DC    AL1(196)  .        CHANNEL QUEUE CHAIN                   29862034
010131 000000FFFFFFFF             23112+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010138 C5                         23113+         DC    AL1(197)  .        CHANNEL QUEUE CHAIN                   29862034
010139 000000FFFFFFFF             23114+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010140 C6                         23115+         DC    AL1(198)  .        CHANNEL QUEUE CHAIN                   29862034
010141 000000FFFFFFFF             23116+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010148 C7                         23117+         DC    AL1(199)  .        CHANNEL QUEUE CHAIN                   29862034
010149 000000FFFFFFFF             23118+         DC    X'000000FFFFFFFF' .CHANNEL QUEUE ENTRY          @DY15773 29870034
010150 FF000000FFFFFFFF           23119+         DC    X'FF000000FFFFFFFF' LAST ENTRY                  @DY15773 29886034
                        10158 23120+RESCHQ   EQU   *                     RESERVED PART OF CHANQ     @DY14542 29888634
010158 FF000000FFFFFFFF           23121+SNSRESQ  DC    X'FF000000FFFFFFFF' RESERVED ENTRY FOR SNS TASK @DY15773 29889234
010160 FF000000FFFFFFFF           23122+DSKRESQ  DC    X'FF000000FFFFFFFF' RESERVED ENTRY FOR DSK TASK @DY15773 29889634
010168 FF000000FFFFFFFF           23123+RASRESQ  DC    X'FF000000FFFFFFFF' RESERVED ENTRY FOR RAS TASK @DY15773 29891634
010170 FF000000FFFFFFFF           23124+SUPRESQ  DC    X'FF000000FFFFFFFF' RESERVED ENTRY FOR SUP TASK @DY15773 29892834
010178 CD                         23125+CRTRESQ  DC    AL1((CRTRESQ2-CHANQ)/8) CHAIN POINTER           @DY14862 29894434
010179 000000FFFFFFFF             23126+         DC    X'000000FFFFFFFF'   RESERVED ENTRY FOR CRT TASK @DY15773 29895134
010180 FF000000FFFFFFFF           23127+CRTRESQ2 DC    X'FF000000FFFFFFFF' RESERVED ENTRY FOR CRT TASK @DY15773 29895534

010188                    00720 23129+         ORG   LTHIDQ .           UPDATE COMREG ENTRY                   29902034
000720 00CE                       23130+         DC    AL2(206)     .  NUMBER OF CHANNEL QUEUE ENTRIES @DM03525 29910034
000722                    10188 23131+         ORG                                                          29918034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


010188 00FF00000000FF00           23134+ITREQ    DC    16XL5'00FF000000'                                    OW 30126034
                                  23135+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 30174034
                                  23136+*                                                                    * 30182034
                                  23137+*        CHANNEL CONTROL TABLE                                       * 30190034
                                  23138+*                                                                    * 30198034
                                  23139+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 30206034

0101D8 0000000000000000           23141+CHNTAB   DC    7H'0' .            CHANNEL CONTROL TABLE             UR 30222034



                                  23143+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 30366034
                                  23144+*                                                                    * 30374034
                                  23145+*        ABNORMAL TERMINATION TABLE.                                 * 30382034
                                  23146+*                                                                    * 30390034
                                  23147+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 30398034

0101E8                            23149+         DS    0F .                                                INT 30414034
                           101E0  23150+ABTAB    EQU   *-8 .              AB TABLE                           AC 30422034
0101E8 0000000000000000           23151+         DC    2F'0' .            BACKGROUND ENTRY                   AC 30430034
0101F0 0000000000000000           23152+         DC    8F'0'   .          FOREGROUND ENTRIES                 UL 30446034
010210 0000000000000000           23153+         DC    20F'0'   .         SUBTASK ENTRIES                    UL 30462034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 23155+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 30486034
                                 23156+*                                                                             * 30494034
                                 23157+*        ERROR RECOVERY BLOCK.                                      @DM01435 30502034
                                 23158+*                                                                             * 30510034
                                 23159+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 30518034

010260                           23161+ERBLOC   DS    0F .              ERROR BLOCK                                 30534034
010260 5B5BC1C2C5D9D9            23162+SVC5NM   DC    C'$$ABERR' .      A-TRANSIENT PHASE NAME                      30542034
010267 C1                        23163+FTCHNM   DC    C'A' .            PHASE TO BE FETCHED                         30550034
010268 3690                      23164+YRETRY   DC    Y(INITRG) .       RETRY EXIT FROM ERP                 @DA03968 30558034
01026A 3104                      23165+YIGNORE  DC    Y(IGNORE) .       IGNORE EXIT FROM ERP                      AS 30566034
01026C 0A3A                      23166+         DC    Y(ERR1A) .        CANCEL EXIT FROM ERP                        30574034
01026E 1430                      23167+YERPEXIT DC    Y(ERPEXITY) .     RET. ADDR. FROM SUPRET MACRO @D34RDFG 30582034

                                 23169+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 30598034
                                 23170+*                                                                             * 30606034
                                 23171+*        ERROR QUEUE ENTRY.                                                   * 30614034
                                 23172+*                                                                             * 30622034
                                 23173+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 30630034

010270                           23175+ERQ1     DS    0CL44 .           FIRST ERROR QUEUE ENTRY                     30646034
010270 0000000000000000          23176+ERQCSW1  DC    XL8'00' .         ERROR CHANNEL STATUS WORD               223 30654034
010278 0000                      23177+ERQPUB1  DC    XL2'00' .         ERROR PUB ADDRESS                       223 30662034
01027A 00                        23178+ERQFLG1  DC    X'00' .           ERROR FLAGS                                 30670034
                                 23179+*               X'80'             UNUSED                                    AP 30678034
                                 23180+*               X'40'             OPERATOR INTERVENTION REQUIRED            AP 30686034
                                 23181+*               X'20'             USER WANTS CONTROL BE RETURNED            AP 30694034
                                 23182+*               X'10'             ERROR MAY BE IGNORED                      AP 30702034
                                 23183+*               X'08'             UNUSED                                    AP 30710034
                                 23184+*               X'04'             FAILING OPERATION MAY BE RETRIED          AP 30718034
                                 23185+*               X'02'             SENSE OPERATION OUTSTANDING  @D34SDAP 30726034
                                 23186+*               X'01'             THIS ERROR QUEUE ENTY IS ACTIV            AP 30734034
01027B 00                        23187+ERQMSG1  DC    X'00' .           ERROR MESSAGE CODE                      223 30742034
                           1027B 23188+ERQTYPE1 EQU   ERQMSG1 .         ALTERNATE TYPE INDICATION                   30750034
01027C 00000000                  23189+ERQSEK1  DC    XL4'00' .         SEEK ADDRESS                                30758034
010280 00000000                  23190+ERQCCB1  DC    XL4'00' .         ERROR CCB ADDRESS                           30766034
010284 0000000000000000          23191+ERQSNS1  DC    XL24'00' .        SENSE BYTES                             223 30774034
                           10284 23192+ERQNAME1 EQU   ERQSNS1 .         ALTERNATE NAME FIELD                        30782034
                           10286 23193+ERQTFX1  EQU   ERQNAME1+2 .      INDICATOR FOR TFIXED SD RECORD            EM 30790034

01029C 0000000000000000          23195+         DC    (10-2)XL44'00'    .MORE ERROR QUEUE ENTRIES                   30806034

0103FC                           23197+ERQ      DS    0CL44 .           LAST ERROR QUEUE ENTRY                      30822034
0103FC 0000000000000000          23198+ERQCSW   DC    XL8'00' .         ERROR CHANNEL STATUS WORD               223 30830034
                           10400 23199+ERQDVC   EQU   ERQCSW+4 .        DEVICE STATUS                               30838034
                           10401 23200+ERQCHL   EQU   ERQCSW+5 .        CHANNEL STATUS                              30846034
010404 0000                      23201+ERQPUB   DC    XL2'00' .         ERROR PUB ADDRESS                       223 30854034
010406 00                        23202+ERQFLG   DC    X'00' .           ERROR FLAGS                                 30862034
010407 00                        23203+ERQMSG   DC    X'00' .           MESSAGE CODE                            223 30870034
                           10407 23204+ERQTYPE  EQU   ERQMSG .         ALTERNATE TYPE INDICATION                   30878034
010408 00000000                  23205+ERQSEK   DC    XL4'00' .         SEEK ADDRESS                            223 30886034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

01040C 00000000                   23206+ERQCCB   DC    XL4'00' .          ERRROR CCB ADDRESS                223 30894034
010410 0000000000000000           23207+ERQSNS   DC    XL24'00' .         SENSE BYTES                       223 30902034
                          10426   23208+ERQEND   EQU   *-2               USED FOR CALCUL. MOVE LENGTH @D34SDAP 30910034
                          10410   23209+ERQNAME  EQU   ERQSNS .           ALTERNATE NAME FIELD                  30918034
                          10412   23210+ERQTFX   EQU   ERQNAME+2 .        INDICATE TFIXED SD RECORD          EM 30926034



010428                            23212+ERQD1    DS    0CL44              FIRST DISK ERROR QUEUE ENTRY @D34SDAP 30942034
010428 0000000000000000           23213+ERQD1CSW DC    XL8'00'            ERROR CHANNEL STATUS WORD    @DY15773 30950034
010430 0000                       23214+ERQD1PUB DC    XL2'00'            ERROR PUB ADDRESS            @DY15773 30952034
010432 00                         23215+ERQD1FLG DC    X'00'              ERROR FLAGS                  @DY15773 30954034
010433 00                         23216+ERQD1MSG DC    X'00'              MESSAGE CODE                 @DY15773 30956034
010434 00000000                   23217+ERQD1SEK DC    XL4'00'            SEEK ADDRESS                 @DY15773 30958034
010438 00000000                   23218+ERQD1CCB DC    XL4'00'            ERROR CCB ADDRESS            @DY15773 30960034
01043C 0000000000000000           23219+ERQD1SNS DC    XL24'00'           SENSE BYTES                  @DY15773 30962034
010454 0000000000000000           23220+         DC    XL44'00'           DISK ERROR QUEUE ENTRY       @D34SDAP 30978034
010480 0000000000000000           23221+         DC    XL44'00'           DISK ERROR QUEUE ENTRY       @D34SDAP 30982034
0104AC 0000000000000000           23222+         DC    XL44'00'           DISK ERROR QUEUE ENTRY       @D34SDAP 30984034
0104D8 0000000000000000           23223+ERQDLST  DC    XL44'00'           DISK ERROR QUEUE ENTRY       @D34SDAP 30990034
                          10504   23224+ERQDEND  EQU   *                  END OF DISK ERROR ENTRIES    @D34SDAP 31014034
                          00005   23225+NODSKEQE EQU   (ERQDEND-ERQD1)/L'ERQD1 NO.OF DISK ERR.ENTRIES  @D34SDAP 31022034
                          000B0   23226+DSKMLNG  EQU   ERQDEND-ERQD1-L'ERQD1 MOVE LENGTH                 @D34SDAP 31030034
010504                            23227+ERQDRES  DS    0CL44              RESERVED DSK ERR QUEUE ENTRY @DY15773 31034034
010504 0000000000000000           23228+ERQDRCSW DC    XL8'00'            ERROR CHANNEL STATUS WORD    @DY15773 31034434
01050C 0000                       23229+ERQDRPUB DC    XL2'00'            ERROR PUB ADDRESS            @DY15773 31034834
01050E 00                         23230+ERQDRFLG DC    X'00'              ERROR FLAGS                  @DY15773 31035234
01050F 00                         23231+ERQDRMSG DC    X'00'              MESSAGE CODE                 @DY15773 31035634
010510 00000000                   23232+ERQDRSEK DC    XL4'00'            SEEK ADDRESS                 @DY15773 31036034
010514 00000000                   23233+ERQDRCCB DC    XL4'00'            ERROR CCB ADDRESS            @DY15773 31036434
010518 0000000000000000           23234+ERQDRSNS DC    XL24'00'           SENSE BYTES                  @DY15773 31036834
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                 23237+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 31054034
                                 23238+*                                                                               * 31062034
                                 23239+*        EMULATOR ECB TABLE.                                                    * 31070034
                                 23240+*                                                                               * 31078034
                                 23241+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 31086034

                           00000 23243+EUECBTAB EQU   0 .               NO ECB TABLE FOR EMULATOR         GRD 31110034


                                 23245+*        THE BOUNDARY BOX CONTAINS IN THE FIRST ENTRY INFORMATION ON EM 31182034
                                 23246+*        STORAGE ORGANIZATION                                       EM 31190034
                                 23247+*        THE PIK SERVES AS INDEX FOR ACCESSING THE INFORMATION ON   EM 31198034
                                 23248+*        BOUNDARIES OF THE PARTITIONS                               EM 31206034
                                 23249+*        IF A PARTITION IS NOT ALLOCATED ,ORIGIN AND END+1 ARE EQUAL EM 31214034
                                 23250+*        AND SET TO THE ORIGIN OF THE NEXT PARTITION IN ACCEND.SEQU. EM 31222034
010530 003FFFFF                  23251+BBOX     DC    A(2048*2048-1)    .ADDRESS OF ALTERNATE AREA ELSE EOR EM 31230034
                                 23252+*                                  AT IPL TIME  THE FOLLOW.IS INSERTEDEM 31238034
010534 0000                      23253+         DC    H'0' .              NO.OF PAGE FRAME IN MIN.REAL PART. EM 31246034
010536 0000                      23254+         DC    H'0' .              NO.OF PAGE FRAME IN MAINPAGE POOL  EM 31254034
                                 23255+*                                                                      31262034
010538 00400000                  23256+         DC    A(2048*2048)    .  ORIGIN OF VIRTUAL ADDR AREA  @DM02602 31270034
01053C 00FE7000                  23257+         DC    A(8142*2048)    . .END OF VIRTUAL STORAGE +1    @DM01729 31278034
                                 23258+*        THE BOUNDARIES OF THE REAL PARTITIONS ARE INSERTED BY IPL   EM 31286034
                                 23259+*        THE REAL LENGTH  IS STORED IN REAL END OF PART. FOR IPL     EM 31294034
010540 00000000                  23260+         DC    A(0) .              ORIGIN OF REAL PARTITION     @DM01729 31326034
010544 0004B000                  23261+         DC    A(150*2048)          END OF REAL PARTITION +1    @DM01729 31334034
010548 00400000                  23262+         DC    F'4194304'     .   ORIGIN OF VIRTUAL PARTITION  @DM01729 31342034
01054C 00BE7000                  23263+         DC    F'12480512'    .   END OF VIRTUAL PARTITION +1  @DM01729 31450034
010550 00000000                  23264+         DC    A(0) .              ORIGIN OF REAL PARTITION     @DM01729 31326034
010554 0004B000                  23265+         DC    A(150*2048)          END OF REAL PARTITION +1    @DM01729 31334034
010558 00BE7000                  23266+         DC    F'12480512'    .   ORIGIN OF VIRTUAL PARTITION  @DM01729 31342034
01055C 00CE7000                  23267+         DC    F'13529088'    .   END OF VIRTUAL PARTITION +1  @DM01729 31450034
010560 00000000                  23268+         DC    A(0) .              ORIGIN OF REAL PARTITION     @DM01729 31326034
010564 0004B000                  23269+         DC    A(150*2048)          END OF REAL PARTITION +1    @DM01729 31334034
010568 00CE7000                  23270+         DC    F'13529088'    .   ORIGIN OF VIRTUAL PARTITION  @DM01729 31342034
01056C 00DE7000                  23271+         DC    F'14577664'    .   END OF VIRTUAL PARTITION +1  @DM01729 31450034
010570 00000000                  23272+         DC    A(0) .              ORIGIN OF REAL PARTITION     @DM01729 31326034
010574 0004B000                  23273+         DC    A(150*2048)          END OF REAL PARTITION +1    @DM01729 31334034
010578 00DE7000                  23274+         DC    F'14577664'    .   ORIGIN OF VIRTUAL PARTITION  @DM01729 31342034
01057C 00E67000                  23275+         DC    F'15101952'    .   END OF VIRTUAL PARTITION +1  @DM01729 31450034
010580 00000000                  23276+         DC    A(0) .              ORIGIN OF REAL PARTITION     @DM01729 31326034
010584 00010000                  23277+         DC    A(32*2048)           END OF REAL PARTITION +1    @DM01729 31334034
010588 00E67000                  23278+         DC    F'15101952'    .   ORIGIN OF VIRTUAL PARTITION  @DM01729 31342034
01058C 00EE7000                  23279+         DC    F'15626240'    .   END OF VIRTUAL PARTITION +1  @DM01729 31450034

                                 23281+*                                                                      31650034
                                 23282+*        DPD TABLE CONTAINS INFORMATION ON PAGE DATA SET AS SPEC. IN EM 31700034
                                 23283+*        DPD MACRO.IT IS UPDATED BY DPD COMMAND IN IPL               EM 31750034
                                 23284+*        FOR LAYOUT SEE DPDADR DSECT                                 EM 31800034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

010590 0000000000000000           23285+DPDTAB   DC    6H'0' .            EXTENT INFORMATION                 EM 31850034
01059C 17CE                       23286+         DC    AL2(8142-2048)       NUM. OF PAGES SUPPORTED          EM 31900034
01059E 000000000000               23287+         DC    3H'0' .                                               EM 31950034
0105A4 0000A7B4                   23288+         DC    AL4(ACONST) .      ADDR.OF CONST.TABLE FOR LOAD LEV.  EM 32050034


                                  23290+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 32300034
                                  23291+*                                                                           * 32350034
                                  23292+*        LOGICAL TRANSIENT SAVE AREA.                                       * 32400034
                                  23293+*                                                                           * 32450034
                                  23294+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 32500034

0105A8                            23296+         DS    0D .               ALIGNMENT                                 32600034
                            105A0 23297+LTASAVE  EQU   *-8 .              SAVE AREA FOR LOGICAL TRANSIENTS          32650034
0105A8 070D0000                   23298+LTAPSW   DC    X'070D0000' .      B-TRANSIENT PSW                    EM 32700034
0105AC 00005090                   23299+         DC    A(LTA+8) .         NEXT INSTRUCTION ADDRESS                  32750034
0105B0 0000000000000000           23300+         DC    16F'0' .           LTA REGISTER SAVE AREA                    32800034
0105F0 0000000000000000           23301+         DC    2F'0' .            RESERVED FOR COMPATIBILITY PURPOSES       32900034
0105F8 0000000000000000           23302+         DC    4D'0' .            SAVE AREA FOR FP REGISTERS                32950034
010618                            23303+         DS    0D .                                                  EM 33350034
                            10610 23304+SAV2P1   EQU   *-8 .              SYST.SAVEAREA FOR USER             EM 33450034
010618 0000000000000000           23305+         DC    2F'0' .            SAVE AREA FOR OLD PSW              EM 33500034
010620 0000000000000000           23306+         DC    16F'0' .           SAVE AREA FOR GENERAL REGISTERS    EM 33550034

010660 0000000000000000           23308+CCWTCB1  DC    (28+1*5)F'0'                                   @DM12792 33650034
0106E4 00                         23309+         DC    X'0' .             SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23310+*                                  OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

0106E8                            23312+         DS    0D .                                                  EM 33350034
                            106E0 23313+SAV2P2   EQU   *-8 .              SYST.SAVEAREA FOR USER             EM 33450034
0106E8 0000000000000000           23314+         DC    2F'0' .            SAVE AREA FOR OLD PSW              EM 33500034
0106F0 0000000000000000           23315+         DC    16F'0' .           SAVE AREA FOR GENERAL REGISTERS    EM 33550034

010730 0000000000000000           23317+CCWTCB2  DC    (28+1*5)F'0'                                   @DM12792 33650034
0107B4 00                         23318+         DC    X'0' .             SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23319+*                                  OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

0107B8                            23321+         DS    0D .                                                  EM 33350034
                            107B0 23322+SAV2P3   EQU   *-8 .              SYST.SAVEAREA FOR USER             EM 33450034
0107B8 0000000000000000           23323+         DC    2F'0' .            SAVE AREA FOR OLD PSW              EM 33500034
0107C0 0000000000000000           23324+         DC    16F'0' .           SAVE AREA FOR GENERAL REGISTERS    EM 33550034

010800 0000000000000000           23326+CCWTCB3  DC    (28+1*5)F'0'                                   @DM12792 33650034
010884 00                         23327+         DC    X'0' .             SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23328+*                                  OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010888                            23330+         DS    0D .                                                  EM 33350034
                            10880 23331+SAV2P4   EQU   *-8 .              SYST.SAVEAREA FOR USER             EM 33450034
010888 0000000000000000           23332+         DC    2F'0' .            SAVE AREA FOR OLD PSW              EM 33500034
010890 0000000000000000           23333+         DC    16F'0' .           SAVE AREA FOR GENERAL REGISTERS    EM 33550034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0108D0 0000000000000000           23335+CCWTCB4  DC    (28+1*5)F'0'                                    @DM12792 33650034
010954 00                         23336+         DC    X'0' .          SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23337+*                              OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010958                            23339+         DS    0D .                                              EM 33350034
                         10950    23340+SAV2P5   EQU   *-8 .           SYST.SAVEAREA FOR USER            EM 33450034
010958 0000000000000000           23341+         DC    2F'0' .         SAVE AREA FOR OLD PSW             EM 33500034
010960 0000000000000000           23342+         DC    16F'0' .        SAVE AREA FOR GENERAL REGISTERS   EM 33550034

0109A0 0000000000000000           23344+CCWTCB5  DC    (28+1*5)F'0'                                    @DM12792 33650034
010A24 00                         23345+         DC    X'0' .          SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23346+*                              OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010A28                            23348+         DS    0D .                                              EM 33350034
                         10A20    23349+SAV2P6   EQU   *-8 .           SYST.SAVEAREA FOR USER            EM 33450034
010A28 0000000000000000           23350+         DC    2F'0' .         SAVE AREA FOR OLD PSW             EM 33500034
010A30 0000000000000000           23351+         DC    16F'0' .        SAVE AREA FOR GENERAL REGISTERS   EM 33550034

010A70 0000000000000000           23353+CCWTCB6  DC    (28+1*5)F'0'                                    @DM12792 33650034
010AF4 00                         23354+         DC    X'0' .          SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23355+*                              OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010AF8                            23357+         DS    0D .                                              EM 33350034
                         10AF0    23358+SAV2P7   EQU   *-8 .           SYST.SAVEAREA FOR USER            EM 33450034
010AF8 0000000000000000           23359+         DC    2F'0' .         SAVE AREA FOR OLD PSW             EM 33500034
010B00 0000000000000000           23360+         DC    16F'0' .        SAVE AREA FOR GENERAL REGISTERS   EM 33550034

010B40 0000000000000000           23362+CCWTCB7  DC    (28+1*5)F'0'                                    @DM12792 33650034
010BC4 00                         23363+         DC    X'0' .          SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23364+*                              OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010BC8                            23366+         DS    0D .                                              EM 33350034
                         10BC0    23367+SAV2P8   EQU   *-8 .           SYST.SAVEAREA FOR USER            EM 33450034
010BC8 0000000000000000           23368+         DC    2F'0' .         SAVE AREA FOR OLD PSW             EM 33500034
010BD0 0000000000000000           23369+         DC    16F'0' .        SAVE AREA FOR GENERAL REGISTERS   EM 33550034

010C10 0000000000000000           23371+CCWTCB8  DC    (28+1*5)F'0'                                    @DM12792 33650034
010C94 00                         23372+         DC    X'0' .          SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23373+*                              OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010C98                            23375+         DS    0D .                                              EM 33350034
                         10C90    23376+SAV2P9   EQU   *-8 .           SYST.SAVEAREA FOR USER            EM 33450034
010C98 0000000000000000           23377+         DC    2F'0' .         SAVE AREA FOR OLD PSW             EM 33500034
010CA0 0000000000000000           23378+         DC    16F'0' .        SAVE AREA FOR GENERAL REGISTERS   EM 33550034

010CE0 0000000000000000           23380+CCWTCB9  DC    (28+1*5)F'0'                                    @DM12792 33650034
010D64 00                         23381+         DC    X'0' .          SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23382+*                              OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010D68                            23384+         DS    0D .                                              EM 33350034
                         10D60    23385+SAV2P10  EQU   *-8 .           SYST.SAVEAREA FOR USER            EM 33450034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

010D68 0000000000000000           23386+         DC    2F'0' .           SAVE AREA FOR OLD PSW              EM 33500034
010D70 0000000000000000           23387+         DC    16F'0' .          SAVE AREA FOR GENERAL REGISTERS    EM 33550034

010DB0 0000000000000000           23389+CCWTCB10 DC    (28+1*5)F'0'                                      @DM12792 33650034
010E34 00                         23390+         DC    X'0' .            SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23391+*                                OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010E38                            23393+         DS    0D .                                              EM 33350034
                            10E30 23394+SAV2P11  EQU   *-8 .             SYST.SAVEAREA FOR USER             EM 33450034
010E38 0000000000000000           23395+         DC    2F'0' .           SAVE AREA FOR OLD PSW              EM 33500034
010E40 0000000000000000           23396+         DC    16F'0' .          SAVE AREA FOR GENERAL REGISTERS    EM 33550034

010E80 0000000000000000           23398+CCWTCB11 DC    (28+1*5)F'0'                                      @DM12792 33650034
010F04 00                         23399+         DC    X'0' .            SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23400+*                                OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010F08                            23402+         DS    0D .                                              EM 33350034
                            10F00 23403+SAV2P12  EQU   *-8 .             SYST.SAVEAREA FOR USER             EM 33450034
010F08 0000000000000000           23404+         DC    2F'0' .           SAVE AREA FOR OLD PSW              EM 33500034
010F10 0000000000000000           23405+         DC    16F'0' .          SAVE AREA FOR GENERAL REGISTERS    EM 33550034

010F50 0000000000000000           23407+CCWTCB12 DC    (28+1*5)F'0'                                      @DM12792 33650034
010FD4 00                         23408+         DC    X'0' .            SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23409+*                                OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

010FD8                            23411+         DS    0D .                                              EM 33350034
                            10FD0 23412+SAV2P13  EQU   *-8 .             SYST.SAVEAREA FOR USER             EM 33450034
010FD8 0000000000000000           23413+         DC    2F'0' .           SAVE AREA FOR OLD PSW              EM 33500034
010FE0 0000000000000000           23414+         DC    16F'0' .          SAVE AREA FOR GENERAL REGISTERS    EM 33550034

011020 0000000000000000           23416+CCWTCB13 DC    (28+1*5)F'0'                                      @DM12792 33650034
0110A4 00                         23417+         DC    X'0' .            SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23418+*                                OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

0110A8                            23420+         DS    0D .                                              EM 33350034
                            110A0 23421+SAV2P14  EQU   *-8 .             SYST.SAVEAREA FOR USER             EM 33450034
0110A8 0000000000000000           23422+         DC    2F'0' .           SAVE AREA FOR OLD PSW              EM 33500034
0110B0 0000000000000000           23423+         DC    16F'0' .          SAVE AREA FOR GENERAL REGISTERS    EM 33550034

0110F0 0000000000000000           23425+CCWTCB14 DC    (28+1*5)F'0'                                      @DM12792 33650034
011174 00                         23426+         DC    X'0' .            SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23427+*                                OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034

011178                            23429+         DS    0D .                                              EM 33350034
                            11170 23430+SAV2P15  EQU   *-8 .             SYST.SAVEAREA FOR USER             EM 33450034
011178 0000000000000000           23431+         DC    2F'0' .           SAVE AREA FOR OLD PSW              EM 33500034
011180 0000000000000000           23432+         DC    16F'0' .          SAVE AREA FOR GENERAL REGISTERS    EM 33550034

0111C0 0000000000000000           23434+CCWTCB15 DC    (28+1*5)F'0'                                      @DM12792 33650034
011244 00                         23435+         DC    X'0' .            SAVE AREA FOR ACCTRAID IN CASE  Z0827 33750034
                                  23436+*                                OF PAGE FAULT IN SUPERVISORSERV.Z0827 33800034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


011245 000000
011248 0000000000000000           23439+BTMTCB   DC    (28+1*5)F'0'         CCWTCB FOR BTAM 2ND TIME   @DM12792 34100034



                                  23441+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 34250034
                                  23442+*                                                                               * 34300034
                                  23443+*        CHANNEL BUCKETS                                                        * 34350034
                                  23444+*                                                                               * 34400034
                                  23445+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 34450034

0112CC 00001F6C                   23447+REGSAV   DC    A(PUBTAB) .        FIRST PUB ON CHANNEL         @DM06677 34550034
0112D0 0000000000000000           23448+         DC    2F'0' .            I/O REGISTER                      368 34600034
0112D8 00001F6C                   23449+         DC    A(PUBTAB) .             SAVE                         368 34650034
0112DC 0000000000000000           23450+         DC    2F'0' .                      AREA                    368 34700034

0112E4 00001F6C                   23452+         DC    A(PUBTAB) .        FIRST PUB ON CHANNEL              314 34800034
0112E8 0000000000000000           23453+         DC    2F'0' .            I/O REGISTER                      368 34850034
0112F0 00001F6C                   23454+         DC    A(PUBTAB) .             SAVE                         368 34900034
0112F4 0000000000000000           23455+         DC    2F'0' .                      AREA                    368 34950034

0112FC 00001F6C                   23457+         DC    A(PUBTAB) .        FIRST PUB ON CHANNEL              314 35050034
011300 0000000000000000           23458+         DC    2F'0' .            I/O REGISTER                      368 35100034
011308 00001F6C                   23459+         DC    A(PUBTAB) .             SAVE                         368 35150034
01130C 0000000000000000           23460+         DC    2F'0' .                      AREA                    368 35200034

011314 00001F6C                   23462+         DC    A(PUBTAB) .        FIRST PUB ON CHANNEL              314 35300034
011318 0000000000000000           23463+         DC    2F'0' .            I/O REGISTER                      368 35350034
011320 00001F6C                   23464+         DC    A(PUBTAB) .             SAVE                         368 35400034
011324 0000000000000000           23465+         DC    2F'0' .                      AREA                    368 35450034

01132C 00001F6C                   23467+         DC    A(PUBTAB) .        FIRST PUB ON CHANNEL              314 35550034
011330 0000000000000000           23468+         DC    2F'0' .            I/O REGISTER                      368 35600034
011338 00001F6C                   23469+         DC    A(PUBTAB) .             SAVE                         368 35650034
01133C 0000000000000000           23470+         DC    2F'0' .                      AREA                    368 35700034

011344 00001F6C                   23472+         DC    A(PUBTAB) .        FIRST PUB ON CHANNEL              314 35800034
011348 0000000000000000           23473+         DC    2F'0' .            I/O REGISTER                      368 35850034
011350 00001F6C                   23474+         DC    A(PUBTAB) .             SAVE                         368 35900034
011354 0000000000000000           23475+         DC    2F'0' .                      AREA                    368 35950034

01135C 00001F6C                   23477+         DC    A(PUBTAB) .        FIRST PUB ON CHANNEL              314 36050034
011360 0000000000000000           23478+         DC    2F'0' .            I/O REGISTER                      368 36100034
011368 00001F6C                   23479+         DC    A(PUBTAB) .             SAVE                         368 36150034
01136C 0000000000000000           23480+         DC    2F'0' .                      AREA                    368 36200034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  23483+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 36262034
                                  23484+*                                                                       * 36268034
                                  23485+*       BLOCKS TO BE USED FOR I/O REQUEST SPECIFIC INFORMATION          * 36274034
                                  23486+*                                                                       * 36280034
                                  23487+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 36286034

011378                            23489+FRSTIRS  DS    0D                                                 @DY15773 36322034
011378 0000000000000000           23490+         DC    XL71'00',AL1(255)  IRS BLOCK                    @DY20090 36622034
0113C0 0000000000000000           23491+         DC    XL71'00',AL1(255)  IRS BLOCK                    @DY20090 36622034
011408 0000000000000000           23492+         DC    XL71'00',AL1(255)  IRS BLOCK                    @DY20090 36622034
011450 0000000000000000           23493+         DC    XL71'00',AL1(255)  IRS BLOCK                    @DY20090 36622034
011498 0000000000000000           23494+         DC    XL71'00',AL1(255)  IRS BLOCK                    @DY20090 36622034
0114E0 0000000000000000           23495+         DC    XL71'00',AL1(255)  IRS BLOCK                    @DY20090 36622034
011528 0000000000000000           23496+         DC    XL71'00',AL1(255)  IRS BLOCK                    @DY20090 36622034
011570 0000000000000000           23497+IRSDBLKS DC    XL71'00',AL1(8)    IRS BLOCK / CHAIN POINTER    @DY20090 36712034
0115B8 0000000000000000           23498+         DC    XL71'00',AL1(255)  IRS BLOCK                    @DY20090 36772034
                            11600 23499+IRSABLKS EQU   *                  ADDITIONAL IRS BLOCKS        @DY15773 36802034
011600 0000000000000000           23500+         DC    XL71'00',AL1(10)   IRS BLOCK / CHAIN POINTER    @DY20090 37222034
011648 0000000000000000           23501+         DC    XL71'00',AL1(11)   IRS BLOCK / CHAIN POINTER    @DY20090 37222034
011690 0000000000000000           23502+         DC    XL71'00',AL1(12)   IRS BLOCK / CHAIN POINTER    @DY20090 37222034
0116D8 0000000000000000           23503+         DC    XL71'00',AL1(13)   IRS BLOCK / CHAIN POINTER    @DY20090 37222034
011720 0000000000000000           23504+         DC    XL71'00',AL1(255)  LAST IRS BLOCK               @DY20090 37282034
                            11768 23505+IRSBLND  EQU   *                                               @DY15773 37312034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 23507+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 38450034
                                 23508+*                                                                               * 38500034
                                 23509+*        JOB ACCOUNTING PARTITION TABLE.                                        * 38550034
                                 23510+*                                                                               * 38600034
                                 23511+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 38650034

011768                           23513+ACCTBG     DS  0D .                  PARTITION ACCOUNT TABLE        RS 39000034
011768 0000000000000000          23514+           DC  12X'00' .                                            RS 39050034
011774 0001                      23515+           DC  H'1'     .                                           RS 39100034
011776 012D                      23516+           DC  AL2(6*50+1)           .                              RS 39200034
011778 1900                      23517+           DC  XL2'1900' .                                          GS 39600034
01177A 0000000000000000          23518+           DC  XL14'0' .                                            GS 39650034
011788 00000000                  23519+           DC  F'0' .              OVERHEAD CPU COUNTER             GS 39750034
01178C 00000000                  23520+           DC  F'0' .              WAIT TIME COUNTER                GS 39800034
011790 4040404040404040          23521+           DC  CL8' ' .            SAVE AREA FOR JOB NAME           GS 39850034
011798 4040404040404040          23522+           DC  CL8' ' .            JOB NAME                         GS 39900034
0117A0 4040404040404040          23523+           DC  CL16' ' .           USER INFO                        GS 39950034
0117B0 C2C7                      23524+           DC  CL2'BG'     .       PARTITION ID                     UL 40000034
0117B2 00                        23525+           DC  X'00' .             CANCEL CODE                      GS 40050034
0117B3 00                        23526+           DC  X'00' .             TYPE OF ACCT RECORD              GS 40100034
0117B4 4040404040404040          23527+           DC  CL8' ' .            JOB DATE                         GS 40150034
0117BC 0000000F                  23528+           DC  XL4'0F' .           JOB START TIME                   GS 40200034
0117C0 0000000F                  23529+           DC  XL4'0F' .           JOB STOP  TIME                   GS 40250034
0117C4 00000000                  23530+           DC  XL4'0' .            RESERVED                         GS 40300034
0117C8 4040404040404040          23531+           DC  CL8' ' .            PHASE NAME                       GS 40350034
0117D0 00000000                  23532+           DC  XL4'0' .            HI CORE ADDR OF PRDG             GS 40400034
0117D4 00000000                  23533+           DC  XL4'0' .            JOB STEP CPU TIME                GS 40450034
0117D8 00000000                  23534+           DC  XL4'0' .            OVERHEAD TIME                    GS 40500034
0117DC 00000000                  23535+           DC  XL4'0' .            ALL BOUND TIME                   GS 40550034
0117E0 1000000000001000          23536+           DC  50XL6'100000000000'         .                        RS 40650034
01190C 20                        23537+           DC  X'20' .                                              RS 40700034
011910                           23538+ACCTF4     DS  0D .                  PARTITION ACCOUNT TABLE        RS 39000034
011910 0000000000000000          23539+           DC  12X'00' .                                            RS 39050034
01191C 0002                      23540+           DC  H'2'     .                                           RS 39100034
01191E 012D                      23541+           DC  AL2(6*50+1)           .                              RS 39200034
011920 1900                      23542+           DC  XL2'1900' .                                          GS 39600034
011922 0000000000000000          23543+           DC  XL14'0' .                                            GS 39650034
011930 00000000                  23544+           DC  F'0' .              OVERHEAD CPU COUNTER             GS 39750034
011934 00000000                  23545+           DC  F'0' .              WAIT TIME COUNTER                GS 39800034
011938 4040404040404040          23546+           DC  CL8' ' .            SAVE AREA FOR JOB NAME           GS 39850034
011940 4040404040404040          23547+           DC  CL8' ' .            JOB NAME                         GS 39900034
011948 4040404040404040          23548+           DC  CL16' ' .           USER INFO                        GS 39950034
011958 C6F4                      23549+           DC  CL2'F4'     .       PARTITION ID                     UL 40000034
01195A 00                        23550+           DC  X'00' .             CANCEL CODE                      GS 40050034
01195B 00                        23551+           DC  X'00' .             TYPE OF ACCT RECORD              GS 40100034
01195C 4040404040404040          23552+           DC  CL8' ' .            JOB DATE                         GS 40150034
011964 0000000F                  23553+           DC  XL4'0F' .           JOB START TIME                   GS 40200034
011968 0000000F                  23554+           DC  XL4'0F' .           JOB STOP  TIME                   GS 40250034
01196C 00000000                  23555+           DC  XL4'0' .            RESERVED                         GS 40300034
011970 4040404040404040          23556+           DC  CL8' ' .            PHASE NAME                       GS 40350034
011978 00000000                  23557+           DC  XL4'0' .            HI CORE ADDR OF PRDG             GS 40400034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

01197C 00000000                    23558+         DC    XL4'0' .           JOB STEP CPU TIME                  GS 40450034
011980 00000000                    23559+         DC    XL4'0' .           OVERHEAD TIME                      GS 40500034
011984 00000000                    23560+         DC    XL4'0' .           ALL BOUND TIME                     GS 40550034
011988 1000000000001000            23561+         DC    50XL6'100000000000'         .                         RS 40650034
011AB4 20                          23562+         DC    X'20' .                                               RS 40700034
011AB8                             23563+ACCTF3     DS  0D .                   PARTITION ACCOUNT TABLE        RS 39000034
011AB8 0000000000000000            23564+         DC    12X'00' .                                             RS 39050034
011AC4 0004                        23565+         DC    H'4'     .                                            RS 39100034
011AC6 012D                        23566+         DC    AL2(6*50+1)           .                              RS 39200034
011AC8 1900                        23567+         DC    XL2'1900' .                                           GS 39600034
011ACA 0000000000000000            23568+         DC    XL14'0' .                                             GS 39650034
011AD8 00000000                    23569+         DC    F'0' .             OVERHEAD CPU COUNTER               GS 39750034
011ADC 00000000                    23570+         DC    F'0' .             WAIT TIME COUNTER                  GS 39800034
011AE0 4040404040404040            23571+         DC    CL8' ' .           SAVE AREA FOR JOB NAME             GS 39850034
011AE8 4040404040404040            23572+         DC    CL8' ' .           JOB NAME                           GS 39900034
011AF0 4040404040404040            23573+         DC    CL16' ' .          USER INFO                          GS 39950034
011B00 C6F3                        23574+         DC    CL2'F3'     .      PARTITION ID                       UL 40000034
011B02 00                          23575+         DC    X'00' .            CANCEL CODE                        GS 40050034
011B03 00                          23576+         DC    X'00' .            TYPE OF ACCT RECORD                GS 40100034
011B04 4040404040404040            23577+         DC    CL8' ' .           JOB DATE                           GS 40150034
011B0C 0000000F                    23578+         DC    XL4'0F' .          JOB START TIME                     GS 40200034
011B10 0000000F                    23579+         DC    XL4'0F' .          JOB STOP  TIME                     GS 40250034
011B14 00000000                    23580+         DC    XL4'0' .           RESERVED                           GS 40300034
011B18 4040404040404040            23581+         DC    CL8' ' .           PHASE NAME                         GS 40350034
011B20 00000000                    23582+         DC    XL4'0' .           HI CORE ADDR OF PRDG               GS 40400034
011B24 00000000                    23583+         DC    XL4'0' .           JOB STEP CPU TIME                  GS 40450034
011B28 00000000                    23584+         DC    XL4'0' .           OVERHEAD TIME                      GS 40500034
011B2C 00000000                    23585+         DC    XL4'0' .           ALL BOUND TIME                     GS 40550034
011B30 1000000000001000            23586+         DC    50XL6'100000000000'         .                         RS 40650034
011C5C 20                          23587+         DC    X'20' .                                               RS 40700034
011C60                             23588+ACCTF2     DS  0D .                   PARTITION ACCOUNT TABLE        RS 39000034
011C60 0000000000000000            23589+         DC    12X'00' .                                             RS 39050034
011C6C 0008                        23590+         DC    H'8'     .                                            RS 39100034
011C6E 012D                        23591+         DC    AL2(6*50+1)           .                              RS 39200034
011C70 1900                        23592+         DC    XL2'1900' .                                           GS 39600034
011C72 0000000000000000            23593+         DC    XL14'0' .                                             GS 39650034
011C80 00000000                    23594+         DC    F'0' .             OVERHEAD CPU COUNTER               GS 39750034
011C84 00000000                    23595+         DC    F'0' .             WAIT TIME COUNTER                  GS 39800034
011C88 4040404040404040            23596+         DC    CL8' ' .           SAVE AREA FOR JOB NAME             GS 39850034
011C90 4040404040404040            23597+         DC    CL8' ' .           JOB NAME                           GS 39900034
011C98 4040404040404040            23598+         DC    CL16' ' .          USER INFO                          GS 39950034
011CA8 C6F2                        23599+         DC    CL2'F2'     .      PARTITION ID                       UL 40000034
011CAA 00                          23600+         DC    X'00' .            CANCEL CODE                        GS 40050034
011CAB 00                          23601+         DC    X'00' .            TYPE OF ACCT RECORD                GS 40100034
011CAC 4040404040404040            23602+         DC    CL8' ' .           JOB DATE                           GS 40150034
011CB4 0000000F                    23603+         DC    XL4'0F' .          JOB START TIME                     GS 40200034
011CB8 0000000F                    23604+         DC    XL4'0F' .          JOB STOP  TIME                     GS 40250034
011CBC 00000000                    23605+         DC    XL4'0' .           RESERVED                           GS 40300034
011CC0 4040404040404040            23606+         DC    CL8' ' .           PHASE NAME                         GS 40350034
011CC8 00000000                    23607+         DC    XL4'0' .           HI CORE ADDR OF PRDG               GS 40400034
011CCC 00000000                    23608+         DC    XL4'0' .           JOB STEP CPU TIME                  GS 40450034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

011CD0 00000000                   23609+         DC    XL4'0' .           OVERHEAD TIME                      GS 40500034
011CD4 00000000                   23610+         DC    XL4'0' .           ALL BOUND TIME                     GS 40550034
011CD8 1000000000001000           23611+         DC    50XL6'100000000000'         .                         RS 40650034
011E04 20                         23612+         DC    X'20' .                                               RS 40700034
011E08                            23613+ACCTF1     DS  0D .                   PARTITION ACCOUNT TABLE        RS 39000034
011E08 0000000000000000           23614+         DC    12X'00' .                                             RS 39050034
011E14 0010                       23615+         DC    H'16'    .                                            RS 39100034
011E16 012D                       23616+         DC    AL2(6*50+1)              .                           RS 39200034
011E18 1900                       23617+         DC    XL2'1900' .                                           GS 39600034
011E1A 0000000000000000           23618+         DC    XL14'0' .                                             GS 39650034
011E28 00000000                   23619+         DC    F'0' .             OVERHEAD CPU COUNTER               GS 39750034
011E2C 00000000                   23620+         DC    F'0' .             WAIT TIME COUNTER                  GS 39800034
011E30 4040404040404040           23621+         DC    CL8' ' .           SAVE AREA FOR JOB NAME             GS 39850034
011E38 4040404040404040           23622+         DC    CL8' ' .           JOB NAME                           GS 39900034
011E40 4040404040404040           23623+         DC    CL16' ' .          USER INFO                          GS 39950034
011E50 C6F1                       23624+         DC    CL2'F1'     .      PARTITION ID                       UL 40000034
011E52 00                         23625+         DC    X'00' .            CANCEL CODE                        GS 40050034
011E53 00                         23626+         DC    X'00' .            TYPE OF ACCT RECORD                GS 40100034
011E54 4040404040404040           23627+         DC    CL8' ' .           JOB DATE                           GS 40150034
011E5C 0000000F                   23628+         DC    XL4'0F' .          JOB START TIME                     GS 40200034
011E60 0000000F                   23629+         DC    XL4'0F' .          JOB STOP  TIME                     GS 40250034
011E64 00000000                   23630+         DC    XL4'0' .           RESERVED                           GS 40300034
011E68 4040404040404040           23631+         DC    CL8' ' .           PHASE NAME                         GS 40350034
011E70 00000000                   23632+         DC    XL4'0' .           HI CORE ADDR OF PRDG               GS 40400034
011E74 00000000                   23633+         DC    XL4'0' .           JOB STEP CPU TIME                  GS 40450034
011E78 00000000                   23634+         DC    XL4'0' .           OVERHEAD TIME                      GS 40500034
011E7C 00000000                   23635+         DC    XL4'0' .           ALL BOUND TIME                     GS 40550034
011E80 1000000000001000           23636+         DC    50XL6'100000000000'         .                         RS 40650034
011FAC 20                         23637+         DC    X'20' .                                               RS 40700034
011FB0                            23638+         DS    0D .                                                  UL 40850034
011FB0                            23639+         DS    0D .               FORCE ALIGNEMENT FOR PSW SAVE AREA EM 41100034
                         11FA8    23640+SNSSAVAR EQU   *-8                SENSE TASK SAVE AREA         @D34SDAP 41150034
011FB0 00000000                   23641+SNSPSW   DC    1F'0'              FIRST FOUR BYTES OF PSW      @D34SDAP 41200034
011FB4 00000000                   23642+SNSPSWAD DC    1F'0'              CONTINUATION ADDRESS         @D34SDAP 41250034
011FB8 0000000000000000           23643+         DC    16F'0'             GENERAL REGISTER SAVE AREA   @D34SDAP 41300034

                         11FF0    23645+DSKSAVAR EQU   *-8                DISK ERP SAVE AREA           @D34SDAP 41400034
011FF8 040C0000                   23646+         DC    X'040C0000'        FIRST PART OF PSW            @D34SDAP 41450034
011FFC 0000405A                   23647+         DC    A(DISKERR)         SECOND PART OF PSW           @D34SDAP 41500034
012000 00002EDA                   23648+         DC    A(INTRTN)          REG  9  IOINTER BASE ADDRESS @D34SDAP 41550034
012004 00000000                   23649+         DC    F'0'               REG 10                       @D34SDAP 41600034
012008 00001000                   23650+         DC    F'4096'            REG 11                       @D34SDAP 41650034
01200C 00000000                   23651+         DC    F'0'               REG 12                       @D34SDAP 41700034
012010 0000405A                   23652+         DC    A(DISKERR)         REG 13  DSK ERP BASE ADDRESS @D34SDAP 41750034
012014 0000000000000000           23653+         DC    4F'0'              REG 14 THROUGH  1            @D34SDAP 41800034
012024 00010428                   23654+         DC    A(ERQD1)           REG  2 ERROR ENTRY ADDRESS   @D34SDAP 41850034
012028 0000000000000000           23655+         DC    3F'0'              REG  3 THROUGH  5            @D34SDAP 41900034
012034 00005E18                   23656+         DC    A(DISP)            REG  6                       @D34SDAP 41950034
012038 0000000000000000           23657+         DC    2F'0'              REG  7 THROUGH  8            @D34SDAP 42000034

                         12038    23659+RASSAVAR EQU   *-8 .              RAS SAVE AREA                      HL 42150034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

012040 0000000000000000           23660+         DC    2F'0' .           OLD PSW SAVE AREA                  HL 42200034
012048 0000000000000000           23661+         DC    16F'0' .          GENERAL REGISTER SAVE AREA         HL 42250034

                         12080 23663+PMRSAVAR EQU   *-8 .               PMGR SAVE AREA                     EM 42400034
012088 0000000000000000           23664+PMGRPSW  DC    2F'0' .           OLD PSW SAVE AREA                  EM 42450034
012090 0000000000000000           23665+         DC    16F'0' .          GENERAL REGISTER SAVE AREA         EM 42500034

                         120C8 23667+PGNSAVAR EQU   *-8 .               PAGEIN SAVE AREA               @DL2982F 42650034
0120D0 0000000000000000           23668+         DC    2F'0' .           OLD PSW SAVE AREA              @DL2982F 42700034
0120D8 0000000000000000           23669+         DC    16F'0' .          GENERAL REGISTER SAVE AREA     @DL2982F 42750034

                         12110 23671+ERPSAVAR EQU   *-8 .               ERP SAVE AREA                      RH 43600034
012118 0000000000000000           23672+         DC    2F'0' .           OLD PSW SAVE AREA                IDRA 43800034
012120 0000000000000000           23673+         DC    16F'0' .          GENERAL REGISTER SAVE AREA       IDRA 43850034

                         12158 23675+SUPSAVAR EQU   *-8 .                                                IDRA 44000034
012160 0000000000000000           23676+         DC    2F'0'             OLD PSW SAVE AREA                    44050034
012168 0000000000000000           23677+         DC    16F'0' .          GENERAL REGISTERS SAVE AREA        RH 44100034

                         121A0 23679+SVTSAVAR EQU   *-8                 SERVICE TASK SAVE AREA         @D34SDAP 44300034
0121A8 040C0000                   23680+         DC    X'040C0000'       FIRST PART OF PSW              @D34SDAP 44350034
0121AC 0000E028                   23681+         DC    A(SERTASK)        SECOND PART OF PSW             @D34SDAP 44400034
0121B0 0000000000000000           23682+         DC    2F'0'             REG 9 THROUGH 10               @D34SDAP 44450034
0121B8 00001000                   23683+         DC    F'4096'           REG 11                         @D34SDAP 44500034
0121BC 00000000                   23684+         DC    F'0'              REG 12                         @D34SDAP 44550034
0121C0 0000E028                   23685+         DC    A(SERTASK)        SERVICE TASK BASE ADDRESS      @D34SDAP 44600034
0121C4 0000000000000000           23686+         DC    8F'0'             REG 14 THROUGH 5               @D34SDAP 44650034
0121E4 00005E18                   23687+         DC    A(DISP)           REG 6                          @D34SDAP 44700034
0121E8 0000000000000000           23688+         DC    2F'0'             REG 7 THROUGH 8                @D34SDAP 44750034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0121F0                            23690+         CNOP  0,8 .             FORCE ALIGNMENT                    US 44950034
                           121F0 23691+CRTSAV   EQU   * .                                                    US 45000034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  23693+************************************************************ @DY14872 00170034
                                  23694+*                                                             @DY14872 00172034
                                  23695+* DISPLAY OPERATOR CONSOLE SUPPORT - CRTSAV - 5745-SC-DOC - REL.34.01   00176034
                                  23696+*                                                             @DY14872 00178034
                                  23697+************************************************************ @DY14872 00180034
                                  23698+*                                                             @DY14872 00182034
                                  23699+* CHANGE ACTIVITY IS AS FOLLOWS:                             @DY14872 00184034
                                  23700+*                                                             @DY14872 00186034
                                  23701+* SUPPORT FOR 3286 CONSOLE PRINTER                          @D34JDHB 00188034
                                  23702+* 3031 SUPPORT                                              @DY14797 00190034
                                  23703+* BUFFER ADDRESS OF X'4040' NOT VALID FOR 3125 DOC CONSOLE.  @DY14872 00192034
                                  23704+* FIRTST LINE OF SCREEN DISAPPEARED TEMPORARILY IF DELETE    @DY15093 00192634
                                  23705+*   DONE WITH USE OF CURSOR.                                  @DY15093 00193234
                                  23706+* WRONG LINE CLEARED DUE TO INCORRECT BUFFER ADDRESS FOR DOC. @DY15417 00193634
                                  23707+* SUPPORT WRITING SINGLE LINES ON 3277/78 SCREEN.           @DY20185 00193834
                                  23708+*                                                             @DY14872 00194034
                                  23709+************************************************************ @DY14872 00196034



0121F0                            23711+ATTBUFF  DS    XL80'40'          ATTENTION BUFFER, EXPECTED FROM       00240034
012240                      121F0 23712+         ORG   *-80                                          @D34ADHB 00241034
0121F0 4040404040404040           23713+         DC    80X'40'           INITIALIZE WITH BLANKS      @D34ADHB 00242034
                                  23714+*                                   $$BATTNB AS FIRST LOCATION        00300028
                                  23715+*                                   OF ALL CRT SAVE AREAS             00310028

012240                            23717+         CNOP  0,8               FORCR ALIGNMENT                Z779 00360028
012240                            23718+SYSTEMS0 DS    0D .              SAVE AREA FOR SUPVR TASK              00400028
                            12238 23719+SYSTEMSV EQU   *-8 .                SAVE AREA ADDR IN SYSTEM TASK    00410028
012240 0000000000000000           23720+SAVOLDP  DC    D'0' .             SAVE AREA FOR THE OLD SVC PSW     00450028
012248                            23721+REGSAVAR DS    CL64 .           SAVE AREA FOR THE REGISTERS'        00500028

                            12280 23723+CRTSAVAR EQU   *-8 .             PROBLEM PROGR SAVE AREA             00600028
012288 000C0000                   23724+CRTPSW   DC    X'000C0000' .       PSW                              00650028
01228C 00004C12                   23725+CRTPSW2  DC    A(CRTTRNS+CRTDSP1)  INITIAL ENTRY POINT      @D34EDAP 00666034
012290 00004C08                   23726+CRTR9    DC    A(CRTTRNS)          CRT BASE REGISTER        @D34EDAP 00674034
012294                            23727+CRTR10   DS    F .                 SAVE FOR REGISTER 10             00800028
012298 00001000                   23728+CRTR11   DC    F'4096'             SAVE FOR REGISTER 11     @D34EDGA 00850034
01229C                            23729+CRTR12   DS    F .                 SAVE FOR REGISTER 12             00900028
0122A0                            23730+CRTR13   DS    F .                 SAVE FOR REGISTER 13             00950028
0122A4 000121F0                   23731+CRTR14   DC    A(CRTSAV)           CRT SAVE AREA ADDRESS    @D34EDAP 00970034
0122A8                            23732+CRTR15   DS    F .                 SAVE FOR REGISTER 15             01050028
0122AC                            23733+CRTR0    DS    F .                 SAVE FOR REGISTER 0              01100028
0122B0                            23734+CRTR1    DS    F .                 SAVE FOR REGISTER 1              01150028
0122B4                            23735+CRTR2    DS    F .                 SAVE FOR REGISTER 2              01200028
0122B8                            23736+CRTR3    DS    F .                 SAVE FOR REGISTER 3              01250028
0122BC                            23737+CRTR4    DS    F .                 SAVE FOR REGISTER 4              01300028
0122C0                            23738+CRTR5    DS    F .                 SAVE FOR REGISTER 5              01350028
0122C4 00005E18                   23739+CRTR6    DC    A(DISP)             DISPATCHER ADDRESS       @D34EDAP 01370034
0122C8                            23740+CRTR7    DS    F .                 SAVE FOR REGISTER 7              01450028
0122CC 00001898                   23741+CRTR8    DC    A(CRTTAB)           ADDRESS OF CRT TABLE     @D34EDAP 01470034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0122D0                            23743+         CNOP  0,4                                                      01560032
0122D0                            23744+CSAVEAR  DS    0F .              CHANNEL SCHED SAVE AREA                01600028
0122D0                            23745+CRTSV1   DS    F .                  SAVE AREA FOR R1                    01650028
                             122D0 23746+CCBSAVAR EQU   CRTSV1 .             CCB ADDR                            01700028
0122D4                            23747+CRTSV2   DS    F .                  SAVE AREA FOR R2                    01750028
0122D8                            23748+CRTSV3   DS    F .                  SAVE AREA FOR R3                    01800028
0122DC                            23749+CRTSV4   DS    F .                  SAVE AREA FOR R4                    01850028
0122E0                            23750+CRTSV5   DS    F .                  SAVE AREA FOR R5                    01900028
0122E4                            23751+CRTSV6   DS    F .                  SAVE AREA FOR R6                    01950028
0122E8                            23752+CRTSV7   DS    F .                  SAVE AREA FOR R7                    02000028
0122EC                            23753+CRTIOSB  DS    F                    SAVE AREA FOR IOS BASE RG @D34EDGA  02020034
                             122E8 23754+CRTPSWM  EQU   CRTSV7 .            SAVE FOR CRT SYSTEM MASK            02050028


                                  23756+*        CONSTANTS NEEDED FOR CCW PROCESSING                          05100028

0122F0                            23758+         CNOP  0,8                FORCE ALIGNMENT                     05120032
0122F0 0000000000000000           23759+CRTCCW   DC    D'0' .             CRT CCW, BUILT BY CRT ROUTINES      05150028
                             122F0 23760+CCWWORK  EQU   CRTCCW .           WORK AREA                           05200028
                             122F0 23761+CSWWORK  EQU   CRTCCW .           WORK AREA TO BUILT DUMMY CSW        05250028
                             122F0 23762+OPCODE   EQU   CCWWORK .          CCW-LOCATION FOR THE OPCODE         05300028
                             122F2 23763+DATAADR  EQU   CCWWORK+2                                             05350028
                             122F2 23764+FIRST    EQU   CCWWORK+2                                             05360028
                             122F4 23765+CHAINED  EQU   CCWWORK+4                                             05400028
                             122F6 23766+LENGTH   EQU   CCWWORK+6 .         LENGTH COUNT OF CCW                 05450028
                             122F6 23767+NUMBER   EQU   CCWWORK+6                                             05460028
0122F8                            23768+CRTCCB   DS    0F .               CRT CCB, MODIFIED BY CRT ROUTINES   05500028
                                  23769+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                   07100028
0122F8                            23770+         DS    0D .                                                     47000028
0122F8 0000                       23771+CRTATCCB DC    XL2'0' .           RESIDUAL COUNT                      49000028
0122FA 0500                       23772+         DC    XL2'0500'   .        COMMUNICATIONS BYTES              50000028
0122FC 0000                       23773+         DC    XL2'0' .           CSW STATUS BYTES                    51000028
0122FE 00                         23774+         DC    AL1(0)      .          LOGICAL UNIT CLASS              52000028
0122FF 04                         23775+         DC    AL1(4)    .          LOGICAL UNIT                      53000028
012300 00                         23776+         DC    XL1'0'                                                  54000028
012301 0122F0                     23777+         DC    AL3(CRTCCW) .      CCW ADDRESS                         55000028
012304 20                         23778+         DC    B'00100000'     .      STATUS BYTE                     56000028
012305 000000                     23779+         DC    AL3(0) .           CSW CCW ADDRESS                     57000028
012308 0401231000000004           23780+         CCW   4,CRTSNSI,0,L'CRTSNSI .                                 59000028
012310 00000000                   23781+CRTSNSI  DC    F'0'               CRT SENSE INFORMATION      @D34EDGA 05560034
012314 00012158                   23782+ASUPSAVA DC    A(SUPSAVAR) .      ADDR OF 'ERA'                       05650028
012318 00000000                   23783+NXTCCW   DC    F'0' .             NEXT CCW TO PROCESS                 05900028
                             12318 23784+CRTNEXT  EQU   NXTCCW                                                05950028
01231C 00000000                   23785+ACTLCCW  DC    F'0' .             ADDR OF ACTUAL CCW                  06000028
                             1231C 23786+AORGCCW  EQU   ACTLCCW                                               06050028
012320 00000000                   23787+CONTCCW  DC    F'0' .             ADDR OF CONT CCW                    06100028
012324 0000                       23788+CONTRDSV DC    H'0' .             SAVE BYTE COUNT OF CONT CCW         06150028
012326 00                         23789+ATTLENG  DC    X'00' .            LENGTH OF ATTENTION INPUT           06200028
012327 00                         23790+REQIDSAV DC    X'00' .            SAVE AREA FOR THE REQID             06250028
012328 00                         23791+CRTNAM2  DC    X'00' .            SAVE AREA FOR CRT CHAR IN ERROR CASE  06260028
```

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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

012329 00                         23792+CRTREQID DC    X'00' .           CRT REQID  SET ON ACTIVATION          06270028
01232A                            23793+         DS    C .               RESERVED SPACE                        06280028
```

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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   23795+*        CONSTANTS NEEDED FOR HARD COPY PROCESSING                    06350028

01232B 10                          23797+CRTFLGHC DC    X'10' .            FLAGS FOR HC                         06400028
                           00080   23798+CRTHCOPN EQU   X'80' .               HC OPENED                         06450028
                           00040   23799+CRTHCOVR EQU   X'40' .               HC IN OVERLAY MODE                06500028
                           00020   23800+CRTHCWRN EQU   X'20' .               HC WARNING (2 TRACKS LEFT) SENT   06550028
                           00010   23801+CRTIPL   EQU   X'10' .               HC IPL SWITCH                     06600028
                           00008   23802+HFTOOPEN EQU   X'08' .               HC MUST BE CREATED                06650028
                           00004   23803+HFEQUNO  EQU   X'04' .               HC NOT IN USE                     06700028
                           00002   23804+HCERR    EQU   X'02' .               HC HAS UNRECOV ERROR              06750028
                           00001   23805+HCINCL   EQU   X'01' .            INCORRECT LENGTH DURING HC DISK I/O  06760028
01232C 00000000                    23806+FRSTSKA  DC    XL4'00' .          PHYS BGN OF HC FILE                  06800028
012330 00000000                    23807+LASTSKA  DC    XL4'00' .          PHYS END OF HC FILE                  06850028
012334 00000000000000              23808+ACTDSKA  DC    XL7'00' .          ACTUAL RECORD                        06900028
01233B 0000000000                  23809+WRAPSKA  DC    XL5'00' .          WRAP AROUND RECORD                   06950028
012340 01                          23810+HCFLG    DC    X'01' .            FLAGBYTE OF HC RECORD                07000028
012341 0000000000                  23811+WRAPOLD  DC    XL5'00' .          OLD WRAP PRINTLOG POINTER            07002032
                           00001   23812+CRTCBIT  EQU   X'01' .            VALUE OF CYCLE BIT FOR ACTL RECORD   07010028
012346 00                          23813+RECNR    DC    X'00' .            RECORD/TRACK                         07050028
012347 00                          23814+TRACKNR  DC    X'00' .            (TRACKS/CYL)-1                       07100028
012348                             23815+         CNOP  0,8                                      @D34EDGA 07100534
                                   23816+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                  07100028
012348 0000                        23817+IJSYSHC  DC    XL2'0' .           RESIDUAL COUNT                       49000028
01234A 1000                        23818+         DC    XL2'1000'   .        COMMUNICATIONS BYTES               50000028
01234C 0000                        23819+         DC    XL2'0' .           CSW STATUS BYTES                     51000028
01234E 00                          23820+         DC    AL1(0)      .          LOGICAL UNIT CLASS               52000028
01234F 0A                          23821+         DC    AL1(10)   .          LOGICAL UNIT                     53000028
012350 00                          23822+         DC    XL1'0'                                                  54000028
012351 012358                      23823+         DC    AL3(HC)     .      CCW ADDRESS                          55000028
012354 00                          23824+         DC    B'00000000'     .      STATUS BYTE                     56000028
012355 000000                      23825+         DC    AL3(0) .           CSW CCW ADDRESS                      57000028
012358 0701235840000006            23826+HC       CCW   OSEEK,*,OCHAIN,OSEEKFL                       @D34EDGA 07101534
012360 3101236040000005            23827+HC1      CCW   OSEARCHC,*,OCHAIN,OSRCHFL                    @D34EDGA 07102034
012368 0801236040000006            23828+HC2      CCW   OTIC,HC1,OCHAIN,OSEEKFL                      @D34EDGA 07102534
012370 0501237000000000            23829+HC3      CCW   OWRITE,*,ONOCHAIN,0                          @D34EDGA 07103034
                           00007   23830+OSEEK    EQU   X'07'                                        @D34EDGA 07103534
                           00031   23831+OSEARCHC EQU   X'31'                                        @D34EDGA 07104034
                           00008   23832+OTIC     EQU   X'08'                                        @D34EDGA 07104534
                           00005   23833+OWRITE   EQU   X'05'                                        @D34EDGA 07105034
                           00006   23834+OREAD    EQU   X'06'                                        @D34EDGA 07105534
                           00020   23835+OSLI     EQU   X'20'                                        @D34EDGA 07106034
                           00040   23836+OCHAIN   EQU   X'40'                                        @D34EDGA 07106534
                           00000   23837+ONOCHAIN EQU   X'00'                                        @D34EDGA 07107034
                           00006   23838+OSEEKFL  EQU   X'06'                                        @D34EDGA 07107534
                           00005   23839+OSRCHFL  EQU   X'05'                                        @D34EDGA 07108034
012378 00000000000000              23840+HCCSW    DC    XL7'00' .            * HARD COPY ERROR INF              07110028
01237F 0000                        23841+HCSNS    DC    XL2'00' .            *                                  07120028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                  23844+*        CONSTANTS AND EQUATES USED BY CRT-REDISPLAY FEATURE  ********  07850028
012381 00
012382 0700                       23846+         CNOP  0,4                FORCE ALIGNMENT                          07862032
012384                            23847+         DS    0F                                                         07870028
012384 0000                       23848+PARTRED  DC    H'0' .             CURRENT PARTITION REDISPLAYING           07900028
012386 0000                       23849+PARTRED1 DC    H'0' .             PARTITION ID UNCHECKED                   07950028
012388 00000000000000             23850+FIRSTLOG DC    XL7'00' .          BACKUPADDR OF 1. SCREEN LINE             08000028
01238F 00000000000000             23851+LASTLOG  DC    XL7'00' .          BACKUPADDR OF 8. SCREEN LINE             08050028
012396 00000000000000             23852+SAVELOG  DC    XL7'00' .          ACTDSKA - 1                              08060028
01239D                            23853+         DS    X .                RESERVED                                 08070032
01239E 0000                       23854+LINEAL1  DC    H'0' .             LINE COUNT 1. SCREEN LINE -ALL MSG       08100028
0123A0 0000                       23855+LINEAL8  DC    H'0' .             LINE COUNT 8. SCREEN LINE -ALL MSG       08150028
0123A2 0000                       23856+LINEPA1  DC    H'0' .             LINE COUNT 1. SCREEN LINE -PART          08200028
0123A4 0000                       23857+LINEPA8  DC    H'0' .             LINE COUNT 8. SCREEN LINE -PART          08250028
0123A6 0000                       23858+LINECNT  DC    H'0' .             LINE COUNT INDICATED BY COMMAND          08300028
0123A8 0000                       23859+LINECNT1 DC    H'0' .             LINE COUNT UNCHECKED COMM                08350028
0123AA 00                         23860+REDISFLG DC    X'00' .            COMMUNICATION REDISPLAY ROUTINES         08400028
                           00080  23861+SCRSAVE  EQU   X'80' .            BIT 0 - SAVE CURRENT DISPLAY             08450028
                           00040  23862+SCRREST  EQU   X'40' .            BIT 1 - RESTORE CURRENT DISPLAY          08500028
                           00020  23863+SCRRET   EQU   X'20' .            BIT 2 - RETURN TO START POINT            08550028
                           00010  23864+SCRFW    EQU   X'10' .            BIT 3 - FORWARD REDISPLAYING             08600028
                           00008  23865+PARCHG   EQU   X'08' .            BIT 4 - PARTITION CHANGED                08650028
                           00004  23866+DISPCNT  EQU   X'04' .            BIT 5 - DISPLAY LINE CO OF PAR LIN       08700028
0123AB 00                         23867+FLG1     DC    X'00' .            COMMUNICATION BYTE COMMAND CHECKING      08750028
                           00080  23868+NOFRST   EQU   X'80' .            NO FIRST PARAMETER INDICATED             08800028
                           00040  23869+PARTPAR  EQU   X'40' .            PARTITION PARAMETER INDICATED            08850028
                           00020  23870+DIRPAR   EQU   X'20' .            DIRECTION PARAMETER INDICATED            08900028
                           00010  23871+RETURPAR EQU   X'10' .            RETURN PARAMETER INDICATED               08950028
                           00008  23872+COUNTPAR EQU   X'08' .            COUNT PARAMETER INDICATED                09000028
                           00004  23873+NOSEC    EQU   X'04' .            NO SECOND PARAMETER INDICATED            09050028
                           00002  23874+SCRFW1   EQU   X'02' .            FORW REDISPL INDICATED                   09100028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                   23877+*        CONSTANTS NEEDED FOR SCREEN MANAGMENT                          09200028
0123AC F0F1F1F5                    23879+SEGVAL0  DC    CL4'0115'           AUTO DEL DEFAULT FOR 3277   @D34EDUS 09253034
0123B0 F0F1F0F6                    23880+SEGVAL1  DC    CL4'0106' .         K-CMD DEFAULT S/125         @D34EDGA 09280034
0123B4 00                          23881+ACTCCW   DC    AL1(0) .            ACTUAL CCW INDICATOR FOR SCREEN CMD  09350028
                             123B4 23882+KCOMLNG  EQU   ACTCCW                                                    09400028
0123B5 00                          23883+MSGIND   DC    X'0' .              MSG INDICATOR IN HEX                 09450028
0123B6 F0F0F0F0                    23884+SEGVAL2  DC    CL4'0000'           WORK SEGMENT VALUE          @D34EDGA 09500034
0123BA 0000
0123BC 00000000                    23885+CRTPOS1  DC    F'0' .              POS AVAIL FOR DATA IN CURRENT LINE   09600034
                             123BC 23886+POS4     EQU   CRTPOS1                                                    09650028
                             123BC 23887+POSCNT   EQU   CRTPOS1                                                    09700028
0123C0 00                          23888+CRTPOS2  DC    X'00'                                                      09750028
                             123C0 23889+POS6     EQU   CRTPOS2                                                    09800028
0123C1 00                          23890+CRTPOS3  DC    X'00'                                                      09850028
0123C2 0000000000000000            23891+DELTAB   DC    17X'00'             DELETION TABLE FOR ASY OC   @DZ14162 09852034
0123D3 0F                          23892+         DC    X'0F'               MARKS END OF TABLE          @D34ADGA 09854034
0123D4 00000000                    23893+CRTPWR   DC    F'0'                DEV.ADDR FROM PGO COMMAND   @DY14872 09856034
0123D8 0000000000000000            23894+CRTCCWS  DC    D'0' .              CCW SAVE AREA                        09900028
                             123D8 23895+CRTACTL  EQU   CRTCCWS .                                                  09910028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                 23898+*          INTERPHASE COMMUNICATION FLAGS                                  10110028

0123E0 00                        23900+DOCAIND  DC    AL1(0)                                                      10150028
                          00001  23901+DOCA01   EQU   X'01' .            SENSE CCW IN 1052 CHANNEL PGM.          10584028
                          00002  23902+DOCA02   EQU   X'02' .            WRITE W/O CR IN 1052 CHANNEL PGM.       10590028
                          00004  23903+DOCA04   EQU   X'04' .            1052 CHANNEL PGM. TO BE TERMINATED      10592028
0123E1 00                        23904+DOCCIND  DC    AL1(0)                                                      10650028
                          00001  23905+DOCC01   EQU   X'01' .            NO NEW LINE REQD. FOR NEXT CCW          10700028
                          00002  23906+DOCC02   EQU   X'02' .            ALARM REQD. DURING NEXT DISPLAY         10750028
                          00004  23907+DOCC04   EQU   X'04' .            CCW PRESENT,WHICH REQS. NO DATA XFER    10800028
                          00008  23908+DOCC08   EQU   X'08' .            MSG. TYPE ANALYSIS IN PROGRESS          10810028
                          00010  23909+DOCC10   EQU   X'10' .            1052 CHANN. PGM. HAS REQD. 2ND.         10820028
                                 23910+*                                 FETCH OF $$BOCRTC                       10822028
                          00020  23911+DOCC20   EQU   X'20' .            'READ' CCW IN 1052 CHANNEL PGM.         10830028
                          00040  23912+DOCC40   EQU   X'40' .            LAST CCW WAS 'READ' CCW                 10840028
                          00080  23913+DOCC80   EQU   X'80'                                          @D34JDHB   10845034
0123E2 00                        23914+DOCDIND  DC    AL1(0)                                                      10850028
                          00001  23915+DOCD01   EQU   X'01' .            $$BOCRTC IS FETCHED BY $$BOCRTD         10900028
                          00002  23916+DOCD02   EQU   X'02' .            SCREEN FULL CONDITION WHEN 2ND.         10950028
                                 23917+*                                 LINE IS REQUIRED BY $$BOCRTB            10960028
                          00004  23918+DOCD04   EQU   X'04' .            $$BOCRTD IS FETCHED BY $$BOCRTQ         11000028
                          00008  23919+DOCD08   EQU   X'08' .            AS 04, BUT OTHER EXIT         @DM12297  11020032
0123E3 00                        23920+DOCEIND  DC    AL1(0) .          HARD WAIT INDICATOR WHEN X'FF'          11060028
                          00001  23921+DOCE01   EQU   X'01' .            PHASE REFETCH AFTER SCREEN I/O ERROR    11070028
                          00002  23922+DOCE02   EQU   X'02' .            INDICATE RETURN FROM $$BOCRTF TO -E     11080034
                          00004  23923+DOCE04   EQU   X'04' .            $$BOCRTC IS FETCHED BY $$BOCRTE         11090028
                          00008  23924+DOCE08   EQU   X'08' .            ERROR DURING SIO IN $$BOCRTE/-F         11092028
                          00040  23925+DOCE40   EQU   X'40' .            INTERV. REQUIRED FOR HC DISK FILE       11098028
                          00080  23926+DOCE80   EQU   X'80' .            LINE 9 SHOULD BE WRITTEN ONTO HC        11098428
0123E4 00                        23927+DOCGIND  DC    AL1(0)                                                      11100028
                          00001  23928+DOCG01   EQU   X'01' .            WRAP AROUND INDICATOR MUST BE           11150028
                                 23929+*                                 WRITTEN IN NEXT RECORD ON HC FILE       11160028
                          00002  23930+DOCG02   EQU   X'02'                                          @D34JDHB   11180034
                          00004  23931+DOCG04   EQU   X'04' .            ALARM CONTROL FLAG                      11210028
                          00008  23932+DOCG08   EQU   X'08' .            MATRIX PRINTER CONTOL FLAG              11220028
                          00010  23933+DOCG10   EQU   X'10' .            INDIC. PRINTLOG ACTIVE        @D34EDUS  11223034
                          00040  23934+DOCG40   EQU   X'40'              CRTQ HAS REARRANGED SCREEN    @DY20185  11224034
                          00080  23935+DOCG80   EQU   X'80' .            INDICATE FIRST TIME WRITE     @D34EDUS  11226034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0123E5 00                         23937+DOCLIND  DC    AL1(0)                                                  11250028
                            00001 23938+DOCL01   EQU   X'01' .            LINE MUST BE DELETED DUE TO          11260028
                                  23939+*                                  'K E,N' OR 'K E,N,N' CMD.            11262028
                            00002 23940+DOCL02   EQU   X'02' .            K CMD. WITHOUT PARAMETERS            11270028
                            00008 23941+DOCL08   EQU   X'08' .            LINE MUST BE DELETED DUE TO CURSOR   11300028
0123E6 A0                         23942+DOCNIND  DC    X'A0' .                                   @DM03683 11400028
                            00001 23943+DOCN01   EQU   X'01' .            'K S,DEL=Y' CMD. IS JUST TYPED IN    11450028
                            00002 23944+DOCN02   EQU   X'02' .            INDICATED K COMMAND W/O OPS @D34EDUS 11460034
                            00010 23945+DOCN10   EQU   X'10' .            ALARM INDICATOR FOR SUPERVISOR       11490028
                            00020 23946+DOCN20   EQU   X'20' .            ALARM MODE                           11492028
                            00040 23947+DOCN40   EQU   X'40' .            CONVERSATIONAL MODE                  11500028
                            00080 23948+DOCN80   EQU   X'80' .            AUTOMATIC DELETION MODE              11510028
0123E7 08                         23949+DOCOIND  DC    AL1(8)                                                  11550028
                            00001 23950+DOCO01   EQU   X'01' .            $$BOCRTO IS FETCHED DUE TO LINE #    11600028
                                  23951+*                                  DEL.; LINE # DEL. REQD. IN $$BOCRTP  11610028
                            00002 23952+DOCO02   EQU   X'02' .            LINE # DEL. DUE TO 'K E,N' CMD.      11650028
                            00004 23953+DOCO04   EQU   X'04' .            LINE # DISPLAY DURING CONVERS. DEL.  11660028
                            00008 23954+DOCO08   EQU   X'08' .            'HOLD' PARAMETER IS EFFECTIVE        11700028
                            00010 23955+DOCO10   EQU   X'10' .            X PHASE FETCHES K PHASE TO READ COMM 11701034
0123E8 00                         23956+DOCPIND  DC    AL1(0)                                                  11750028
                            00001 23957+DOCP01   EQU   X'01' .            INSTRUCTION LINE SHOULD BE CLEARED   11760028
                            00020 23958+DOCP20   EQU   X'20' .            INVALID CURSOR SETTING               11794028
                            00040 23959+DOCP40   EQU   X'40' .            UNEQUAL PASS INDICATOR      @DM11258 11796031
                            00080 23960+DOCP80   EQU   X'80' .            $$BOCRTV HAS HAD CTRL. DUE TO AN     11798028
                                  23961+*                                  INVALID SCREEN MGMT. COMMAND         11798428
0123E9 00                         23962+DOCQIND  DC    AL1(0)                                                  11800028
                            00001 23963+DOCQ01   EQU   X'01' .            $$BOCRTQ HAS DETECTED A DEL'BLE LINE 11850028
                            00002 23964+DOCQ02   EQU   X'02' .            $$BOCRTQ FETCHED DUE TO DEL. BY CMD. 11900028
                            00004 23965+DOCQ04   EQU   X'04' .            INDICATES ENTRY IN G FROM B @D34EDUS 11910034
                            00020 23966+DOCQ20   EQU   X'20' .            $$BOCRTW HAS HAD CONTROL; SCREEN     11940028
                                  23967+*                                  LINES CAN BE MADE AVAILABLE          11940428
                            00040 23968+DOCQ40   EQU   X'40' .            $$BOCRTW HAS DETECTED THAT NO SCREEN 11942028
                                  23969+*                                  LINES CAN BE MADE AVAILABLE          11944028
                            00080 23970+DOCQ80   EQU   X'80' .            $$BOCRTQ IS FETCHED 2ND. TIME DURING 11950028
                                  23971+*                                  CONVERS. DEL.;$$BOCRTX HAS HAD CTRL. 11960028
0123EA 00                         23972+DOCRIND  DC    AL1(0)                                                  12000028
                            00001 23973+DOCR01   EQU   X'01' .            BYTE CT. OF A 'READ' CCW MAY NOT     12050028
                                  23974+*                                  BE EXHAUSTED BY OPERATOR RESPONSE    12052028
                            00002 23975+DOCR02   EQU   X'02' .            READ MUST BE CONTINUED:              12060028
                                  23976+*                                  BYTE CT. EXCEEDS ENTRY AREA CAPACITY 12062028



                                  23978+*                                                          @D34EDGA 12067034
                                  23979+*   DEVICE DEPENDENT CONSTANTS OF DEVICE INDEPENDENT LENGTH    @D34EDGA 12069034
                                  23980+*                                                          @D34EDGA 12071034
0123EB D940                       23981+CADRINS  DC    X'D940'            CURSOR ADDR OF INST LNE 21  @DY15093 12091034
0123ED 0640                       23982+INSBUFA  DC    X'0640'            CU BUFF POSIT OF INST LINE  @DY15093 12092034
0123EF 5A50                       23983+CADRINP  DC    X'5A50'            CURSOR ADDR OF INP LNE22+23 @DY15093 12093034
0123F1 0690                       23984+INPBUFA  DC    X'0690'            CU BUFF POSIT OF INPT LINE  @DY15093 12094034
0123F3 5CF0                       23985+CADRWRN  DC    X'5CF0'            CURSOR ADDR OF WRNG LNE 24  @DY15093 12095034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
0123F5 0730                       23986+WRNBUFA  DC    X'0730'            CU BUFF POSIT OF WRNG LINE  @DY15093 12096034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                  23989+*                                                                  @D34EDGA 12109034
                                  23990+*      AUXILIARY SCREEN DESCRIPTION TABLE                          @D34EDGA 12111034
                                  23991+*                                                                  @D34EDGA 12113034


0123F7 00
0123F8 0700                       23993+         CNOP  2,4                 FORCE ALIGNMENT               @D34EDGA 12117034
                            123FA 23994+AUXTAB   EQU   *                   AUXILIARY SCREEN DESCR TABLE@D34EDGA 12119034
0123FA 02                         23995+FLAGS    DC    X'02'               FLAG BYTE                     @D34EDGA 12225034
                            00001 23996+CONSTYP1 EQU   X'01'               DOC  CONSOLE                  @D34EDGA 12227034
                            00002 23997+CONSTYP2 EQU   X'02'               3277 CONSOLE                  @D34EDGA 12229034
                            00004 23998+CONSTYP3 EQU   X'04'               3284/6/7 CONS PRT SUPPORT     @D34JDHB 12229634
                            00008 23999+CONSTYP4 EQU   X'08'               3284/6/7 CONS PRT ACTIVE      @D34JDHB 12230234
0123FB 00                         24000+         DC    X'00'               RESERVED                      @D34EDGA 12231034
0123FC 000124E8                   24001+ASCT     DC    A(SCRNCTL)          PTR TO SCREEN CONTROL TAB     @D34EDGA 12233034
012400 0001253D                   24002+ASCRIMG  DC    A(SCRIMG)           PTR TO SCREEN IMAGE BUFFER    @D34EDGA 12235034
012404 00012CBC                   24003+ATABASE  DC    A(TABASE)           POINTER TO DEV BUF ADDR TAB @D34EDGA 12237034
012408 00012D0C                   24004+ALASTIN  DC    A(LASTIN)           PTR TO LAST MSG AREA ADDR     @D34EDGA 12239034
01240C 000123F5                   24005+AWRNBUFA DC    A(WRNBUFA)          PTR TO BUFF ADDR OF WRN LNE @D34EDGA 12241034
012410 00012D0E                   24006+ABLKLNE  DC    A(BLKLNE)           POINTER TO LINE FRAME         @D34EDGA 12243034
012414 00012D63                   24007+AFRAME3  DC    A(FRAME3)           POINTER TO INPUT LINE FRAME @D34EDGA 12245034
012418 00012E01                   24008+AMSGWAIT DC    A(MSGWAIT)          POINTER TO MESSAGE FRAME      @D34EDGA 12247034
01241C 00012E3F                   24009+AMSGTEXT DC    A(MSGTEXT)          POINTER TO MSG TEXT FRAME     @D34EDGA 12249034
                            00000 24010+OWCC     EQU   0                   WRITE CNTRL CHAR SCRIMG DISP@D34EDGA 12251034
                            00002 24011+RSTKYBD  EQU   X'02'               RESTORE KEYBOARD BIT          @D34EDGA 12253034
012420 00012542                   24012+ALNE1    DC    A(LNE1)             FIRST LINE ADDR               @D34EDGA 12255034
012424 00012593                   24013+ALNE2    DC    A(LNE2)             SECOND LINE ADDR              @D34EDGA 12257034
012428 00012B45                   24014+ALMSGL   DC    A(LNE20)            LAST LINE OF MSG AREA ADDR    @D34EDGA 12259034
01242C 00012B96                   24015+AINSTL   DC    A(LNE21)            INSTRUCTION LINE ADDR         @D34EDGA 12261034
012430 00012BE6                   24016+AINAR    DC    A(CRTSF22)          INPUT AREA SF ADDR            @D34EDGA 12263034
012434 00012BE9                   24017+AINAR1   DC    A(INPUTCH)          AVAILABLE INPUT AREA ADDR     @D34EDGA 12265034
012438 00012C88                   24018+AWRNL    DC    A(WRNLNE)           WARNING LINE SF ADDR          @D34EDGA 12267034
01243C 004C                       24019+SCTL     DC    H'76'               SCT-OFFSET TO LAST SCT ENTRY@D34EDGA 12269034
01243E 0050                       24020+LINELN   DC    H'80'               LENGTH OF LINE                @D34EDGA 12271034
012440 0003                       24021+LNUM     DC    H'3'                LENGTH OF ATTRBYTE + NUMB     @D34EDGA 12273034
012442 0053                       24022+LIOAREA  DC    H'83'               LENGTH OF HC I/O AREA         @D34EDGA 12275034
012444 0658                       24023+LMSGAR   DC    Y(CRTSF21-SCRIMG)   LENGTH OF MESSAGE AREA        @D34EDGA 12308034
012446 06A9                       24024+LMSGIAR  DC    Y(CRTSF22-SCRIMG)   LENGTH MSG AREA + INST LINE @D34EDGA 12310034
012448 074B                       24025+LSCRWOW  DC    Y(WRNLNE-SCRIMG)    LENGTH SCREEN W/O WRN LINE    @D34EDGA 12312034
01244A 00A5                       24026+LREADALL DC    Y(SCRIMGE-CRTSF22)  LENGTH OF READ AREA + ORDERS@D34EDGA 12314034
01244C 0148                       24027+LFRAME   DC    Y(FRAMEND-BLKLNE)   LENGTH OF FRAME OF LINES      @D34EDGA 12316034
01244E F2F0                       24028+MDIGIT   DC    CL2'20'             MAX DIGIT FOR SEG OPTION      @D34EDGA 12318034
                                  24029+*                                                                  @D34EDGA 12320034
                                  24030+*                                                                  @D34EDGA 12322034
012450 F1                         24031+REQKEY   DC    X'F1'              USE PF1                        @D34JDHB 12422834
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                         12451 24034+IOAREA   EQU   *                BEGIN OF HC I/O AREA         @D34EDGA 12423434
012451                         24035+         DS    CL83                                          @D34EDGA 12427834
0124A4 19                      24036+         DC    X'19'            END OF PRINTING 3284         @D34JDHB 12428434


0124A5 00
0124A6 0700                    24038+         CNOP  0,4              FORCE ALIGNMENT                       12460032
                               24040+*       SCT ENTRY LAYOUT:                                            12520028
                               24041+*                                                                    12530028
                               24042+*   BYTE 1:  LINE STATUS                                             12540028
                               24043+*   BYTE 2:  PIK/TIK                                                 12542028
                               24044+*   BYTE 3:  RESERVED                                                12544028
                               24045+*   BYTE 4:  LINE NUMBER                                             12546028

                               24047+*                                                        @D34EDGA 12588034
                               24048+*     SCREEN CONTROL TABLE LINE STATUS BYTE MEANING      @D34EDGA 12608034
                               24049+*                                                        @D34EDGA 12628034
                         000A0 24050+NAVAIL   EQU   X'A0' .             ACTION OR DECISION MESSAGE      12650028
                               24051+*                                  X'80' IS ACTION TYPE MSG,  @DY20180 12660034
                               24052+*                                  X'20' IS DECISION TYPE MSG. @DY20180 12670034
                         00040 24053+UNTCHBL  EQU   X'40' .             EVENTUAL ACTION MESSAGE         12700028
                         00010 24054+YAVAIL   EQU   X'10' .             INFORMATION MESSAGE             12800028
                         00008 24055+CONT     EQU   X'08' .             CONTINUATION LINE               12850028
                         00004 24056+CRTFREE  EQU   X'04' .             FREE LINE                       12860028
                         00001 24057+INPRCT   EQU   X'01' .             PROTECTED, I. E. NOT YET ON HC FILE  12900028
0124A8 00000000                24058+PRINTSNS DC    F'0'                                          @D34JDHB 12921034
0124AC 0700 0700               24059+         CNOP  0,8                                           @D34JDHB 12922034
                               24060+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                 07100028
0124B0 0000                    24061+PRINTCCB DC    XL2'0' .          RESIDUAL COUNT                      49000028
0124B2 0000                    24062+         DC    XL2'0'      .       COMMUNICATIONS BYTES              50000028
0124B4 0000                    24063+         DC    XL2'0' .          CSW STATUS BYTES                    51000028
0124B6 00                      24064+         DC    AL1(0)      .         LOGICAL UNIT CLASS              52000028
0124B7 04                      24065+         DC    AL1(4)    .         LOGICAL UNIT                      53000028
0124B8 00                      24066+         DC    XL1'0'                                                54000028
0124B9 0124C8                  24067+         DC    AL3(PRINTCCW) .   CCW ADDRESS                       55000028
0124BC 00                      24068+         DC    B'00000000'     .     STATUS BYTE                   56000028
0124BD 000000                  24069+         DC    AL3(0) .          CSW CCW ADDRESS                     57000028
0124C0                   124B2 24070+         ORG   PRINTCCB+2                                    @D34JDHB 12924034
0124B2 11                      24071+         DC    X'11'              GET SENSE INFORMATION     @D34JDHB 12925034
0124B3                   124B6 24072+         ORG   PRINTCCB+6                                    @D34JDHB 12926034
0124B6 08                      24073+         DC    X'08'              PHYSICAL ADDRESSING       @D34JDHB 12927034
0124B7                   124BC 24074+         ORG   PRINTCCB+12                                   @D34JDHB 12928034
0124BC 20                      24075+         DC    X'20'                                         @D34JDHB 12929034
0124BD                   124C0 24076+         ORG   PRINTCCB+16                                   @D34JDHB 12930034
0124C0 040124A800000001        24077+         CCW   X'04',PRINTSNS,0,1                            @D34JDHB 12931034
0124C8 0101245100000054        24078+PRINTCCW CCW   X'01',IOAREA,0,84                             @D34JDHB 12932034

0124D0 0100000080000004        24080+CRTCCW0  CCW   X'01',0,X'80',4       WRITE SCR CONTROL CHAR.  @DY20185 12933334
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0124D8 080122F000000001           24081+         CCW   X'08',CRTCCW,X'00',1   CONTINUE WITH CRTCCW     @DY20185 12934134

0124E0 00012539                   24083+ASCRIMG0 DC    A(SCRIMG0)           PTR TO SCREEN CONTROL COPY @DY20185 12934534
0124E4 00012C8C                   24084+ACRTBUAD DC    A(CRTBUAD)           PTR TO LINE BUFFER ADDRESS @DY20185 12934634
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0124E8                            24086+SCRNCTL  DS    0H                                          @D34JDHB 12941034
                            124E8 24087+SCT1     EQU   *                                                    12950028
0124E8 04000001                   24088+         DC    X'04000001'                                          13000028
                            124EC 24089+SCT2     EQU   *                                                    13350028
0124EC 04000002                   24090+         DC    X'04000002'                                          13400028
                            124F0 24091+SCT3     EQU   *                                                    13600028
0124F0 04000003                   24092+         DC    X'04000003'                                          13650028
                            124F4 24093+SCT4     EQU   *                                                    13850028
0124F4 04000004                   24094+         DC    X'04000004'                                          13900028
                            124F8 24095+SCT5     EQU   *                                                    14100028
0124F8 04000005                   24096+         DC    X'04000005'                                          14150028
                            124FC 24097+SCT6     EQU   *                                                    14350028
0124FC 04000006                   24098+         DC    X'04000006'                                          14400028
                            12500 24099+SCT7     EQU   *                                                    14600028
012500 04000007                   24100+         DC    X'04000007'                                          14650028
                            12504 24101+SCT8     EQU   *                                                    14850028
012504 04000008                   24102+         DC    X'04000008'                                          14900028
                            12508 24103+SCT9     EQU   *                                                    15100028
012508 04000009                   24104+         DC    X'04000009'                                 @D34EDGA 15102034
                            1250C 24105+SCT10    EQU   *                                           @D34EDGA 15103034
01250C 0400000A                   24106+         DC    X'0400000A'                                 @D34EDGA 15104034
                            12510 24107+SCT11    EQU   *                                           @D34EDGA 15105034
012510 0400000B                   24108+         DC    X'0400000B'                                 @D34EDGA 15106034
                            12514 24109+SCT12    EQU   *                                           @D34EDGA 15107034
012514 0400000C                   24110+         DC    X'0400000C'                                 @D34EDGA 15108034
                            12518 24111+SCT13    EQU   *                                           @D34EDGA 15109034
012518 0400000D                   24112+         DC    X'0400000D'                                 @D34EDGA 15110034
                            1251C 24113+SCT14    EQU   *                                           @D34EDGA 15111034
01251C 0400000E                   24114+         DC    X'0400000E'                                 @D34EDGA 15112034
                            12520 24115+SCT15    EQU   *                                           @D34EDGA 15113034
012520 0400000F                   24116+         DC    X'0400000F'                                 @D34EDGA 15114034
                            12524 24117+SCT16    EQU   *                                           @D34EDGA 15115034
012524 04000010                   24118+         DC    X'04000010'                                 @D34EDGA 15116034
                            12528 24119+SCT17    EQU   *                                           @D34EDGA 15117034
012528 04000011                   24120+         DC    X'04000011'                                 @D34EDGA 15118034
                            1252C 24121+SCT18    EQU   *                                           @D34EDGA 15119034
01252C 04000012                   24122+         DC    X'04000012'                                 @D34EDGA 15120034
                            12530 24123+SCT19    EQU   *                                           @D34EDGA 15121034
012530 04000013                   24124+         DC    X'04000013'                                 @D34EDGA 15122034
                            12534 24125+SCT20    EQU   *                                           @D34EDGA 15123034
012534 04000014                   24126+         DC    X'04000014'                                 @D34EDGA 15124034
                            12538 24127+SCT21    EQU   *                                           @D34EDGA 15125034
012538 FF                         24128+         DC    X'FF' .            SCT BYTE=END OF STRING             15150028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

012539                           24130+SCRIMG0  DS    0CL4             CTL CHARS FOR SINGLE WRITE   @DY20185 90837934
012539                           24131+         DS    XL2              FIELDS CRTWCC AND CRTSBA1    @DY20185 90845934
01253B                           24132+         DS    XL2              LINE BUFFER ADDRESS          @DY20185 90853934
                           1253D 24133+SCRIMG   EQU   *                BUFFER OF THE SCREEN IMAGE   @DY20185 90861934
01253D 40                        24134+CRTWCC   DC    X'40' .          01 RESET MOD DATA TG BITS    @DY13979 90869934
01253E 11                        24135+CRTSBA1  DC    X'11' .          SBA IDENTIFIER               @D34EDGA 90899934
01253F 4040                      24136+CRTSBA23 DC    XL2'4040'        DEVICE BUFFER ADDRESS        @DY13979 90909934
012541 1D                        24137+CRTSF1   DC    X'1D' .          START FIELD CHARACTER        @D34EDGA 90949934
                           12542 24138+LNE1     EQU   *                                           @D34EDGA 91029934
012542 60                        24139+         DC    X'60' .           ATTRIBUTE BYTE              @DY13133 91069934
012543 F0F1                      24140+         DC    X'F0F1'           LINE NUMBER                 @D34EDGA 91109934
012545 4040404040404040          24141+         DC    CL77' ' .                                     @D34EDGA 91149934
012592 1D                        24142+CRTSF2   DC    X'1D' .           START FIELD CHARACTER       @D34EDGA 91189934
                           12593 24143+LNE2     EQU   *                                           @D34EDGA 91229934
012593 60                        24144+         DC    X'60' .           ATTRIBUTE BYTE              @DY13133 91269934
012594 F0F2                      24145+         DC    X'F0F2'           LINE NUMBER                 @D34EDGA 91309934
012596 4040404040404040          24146+         DC    CL77' ' .                                     @D34EDGA 91349934
0125E3 1D                        24147+CRTSF3   DC    X'1D' .           START FIELD CHARACTER       @D34EDGA 91389934
                           125E4 24148+LNE3     EQU   *                                           @D34EDGA 91429934
0125E4 60                        24149+         DC    X'60' .           ATTRIBUTE BYTE              @DY13133 91469934
0125E5 F0F3                      24150+         DC    X'F0F3'           LINE NUMBER                 @D34EDGA 91509934
0125E7 4040404040404040          24151+         DC    CL77' ' .                                     @D34EDGA 91549934
012634 1D                        24152+CRTSF4   DC    X'1D' .           START FIELD CHARACTER       @D34EDGA 91589934
                           12635 24153+LNE4     EQU   *                                           @D34EDGA 91629934
012635 60                        24154+         DC    X'60' .           ATTRIBUTE BYTE              @DY13133 91669934
012636 F0F4                      24155+         DC    X'F0F4'           LINE NUMBER                 @D34EDGA 91709934
012638 4040404040404040          24156+         DC    CL77' ' .                                     @D34EDGA 91749934
012685 1D                        24157+CRTSF5   DC    X'1D' .           START FIELD CHARACTER       @D34EDGA 91789934
                           12686 24158+LNE5     EQU   *                                           @D34EDGA 91829934
012686 60                        24159+         DC    X'60' .           ATTRIBUTE BYTE              @DY13133 91869934
012687 F0F5                      24160+         DC    X'F0F5'           LINE NUMBER                 @D34EDGA 91909934
012689 4040404040404040          24161+         DC    CL77' ' .                                     @D34EDGA 91949934
0126D6 1D                        24162+CRTSF6   DC    X'1D' .           START FIELD CHARACTER       @D34EDGA 91989934
                           126D7 24163+LNE6     EQU   *                                           @D34EDGA 92029934
0126D7 60                        24164+         DC    X'60' .           ATTRIBUTE BYTE              @DY13133 92069934
0126D8 F0F6                      24165+         DC    X'F0F6'           LINE NUMBER                 @D34EDGA 92109934
0126DA 4040404040404040          24166+         DC    CL77' ' .                                     @D34EDGA 92149934
012727 1D                        24167+CRTSF7   DC    X'1D' .           START FIELD CHARACTER       @D34EDGA 92189934
                           12728 24168+LNE7     EQU   *                                           @D34EDGA 92229934
012728 60                        24169+         DC    X'60' .           ATTRIBUTE BYTE              @DY13133 92269934
012729 F0F7                      24170+         DC    X'F0F7'           LINE NUMBER                 @D34EDGA 92309934
01272B 4040404040404040          24171+         DC    CL77' ' .                                     @D34EDGA 92349934
012778 1D                        24172+CRTSF8   DC    X'1D' .           START FIELD CHARACTER       @D34EDGA 92389934
                           12779 24173+LNE8     EQU   *                                           @D34EDGA 92429934
012779 60                        24174+         DC    X'60' .           ATTRIBUTE BYTE              @DY13133 92469934
01277A F0F8                      24175+         DC    X'F0F8'           LINE NUMBER                 @D34EDGA 92509934
01277C 4040404040404040          24176+         DC    CL77' ' .                                     @D34EDGA 92549934
0127C9 1D                        24177+CRTSF9   DC    X'1D' .           START FIELD CHARACTER       @D34EDGA 92589934
                           127CA 24178+LNE9     EQU   *                                           @D34EDGA 92629934
0127CA 60                        24179+         DC    X'60' .           ATTRIBUTE BYTE              @DY13133 92669934
0127CB F0F9                      24180+         DC    X'F0F9'           LINE NUMBER                 @D34EDGA 92709934
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0127CD 4040404040404040           24181+         DC    CL77' ' .                                    @D34EDGA 92749934
01281A 1D                         24182+CRTSF10  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 92789934
                            1281B 24183+LNE10    EQU   *                                           @D34EDGA 92829934
01281B 60                         24184+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 92869934
01281C F1F0                       24185+         DC    X'F1F0'          LINE NUMBER                 @D34EDGA 92909934
01281E 4040404040404040           24186+         DC    CL77' ' .                                    @D34EDGA 92949934
01286B 1D                         24187+CRTSF11  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 92989934
                            1286C 24188+LNE11    EQU   *                                           @D34EDGA 93029934
01286C 60                         24189+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 93069934
01286D F1F1                       24190+         DC    X'F1F1'          LINE NUMBER                 @D34EDGA 93109934
01286F 4040404040404040           24191+         DC    CL77' ' .                                    @D34EDGA 93149934
0128BC 1D                         24192+CRTSF12  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 93189934
                            128BD 24193+LNE12    EQU   *                                           @D34EDGA 93229934
0128BD 60                         24194+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 93269934
0128BE F1F2                       24195+         DC    X'F1F2'          LINE NUMBER                 @D34EDGA 93309934
0128C0 4040404040404040           24196+         DC    CL77' ' .                                    @D34EDGA 93349934
01290D 1D                         24197+CRTSF13  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 93389934
                            1290E 24198+LNE13    EQU   *                                           @D34EDGA 93429934
01290E 60                         24199+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 93469934
01290F F1F3                       24200+         DC    X'F1F3'          LINE NUMBER                 @D34EDGA 93509934
012911 4040404040404040           24201+         DC    CL77' ' .                                    @D34EDGA 93549934
01295E 1D                         24202+CRTSF14  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 93589934
                            1295F 24203+LNE14    EQU   *                                           @D34EDGA 93629934
01295F 60                         24204+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 93669934
012960 F1F4                       24205+         DC    X'F1F4'          LINE NUMBER                 @D34EDGA 93709934
012962 4040404040404040           24206+         DC    CL77' ' .                                    @D34EDGA 93749934
0129AF 1D                         24207+CRTSF15  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 93789934
                            129B0 24208+LNE15    EQU   *                                           @D34EDGA 93829934
0129B0 60                         24209+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 93869934
0129B1 F1F5                       24210+         DC    X'F1F5'          LINE NUMBER                 @D34EDGA 93909934
0129B3 4040404040404040           24211+         DC    CL77' ' .                                    @D34EDGA 93949934
012A00 1D                         24212+CRTSF16  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 93989934
                            12A01 24213+LNE16    EQU   *                                           @D34EDGA 94029934
012A01 60                         24214+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 94069934
012A02 F1F6                       24215+         DC    X'F1F6'          LINE NUMBER                 @D34EDGA 94109934
012A04 4040404040404040           24216+         DC    CL77' ' .                                    @D34EDGA 94149934
012A51 1D                         24217+CRTSF17  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 94189934
                            12A52 24218+LNE17    EQU   *                                           @D34EDGA 94229934
012A52 60                         24219+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 94269934
012A53 F1F7                       24220+         DC    X'F1F7'          LINE NUMBER                 @D34EDGA 94309934
012A55 4040404040404040           24221+         DC    CL77' ' .                                    @D34EDGA 94349934
012AA2 1D                         24222+CRTSF18  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 94389934
                            12AA3 24223+LNE18    EQU   *                                           @D34EDGA 94429934
012AA3 60                         24224+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 94469934
012AA4 F1F8                       24225+         DC    X'F1F8'          LINE NUMBER                 @D34EDGA 94509934
012AA6 4040404040404040           24226+         DC    CL77' ' .                                    @D34EDGA 94549934
012AF3 1D                         24227+CRTSF19  DC    X'1D' .          START FIELD CHARACTER       @D34EDGA 94589934
                            12AF4 24228+LNE19    EQU   *                                           @D34EDGA 94629934
012AF4 60                         24229+         DC    X'60' .          ATTRIBUTE BYTE              @DY13133 94669934
012AF5 F1F9                       24230+         DC    X'F1F9'          LINE NUMBER                 @D34EDGA 94709934
012AF7 4040404040404040           24231+         DC    CL77' ' .                                    @D34EDGA 94749934
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

012B44 1D                        24232+CRTSF20  DC    X'1D' .             START FIELD CHARACTER       @D34EDGA 94789934
                         12B45   24233+LNE20    EQU   *                                               @D34EDGA 94829934
012B45 60                        24234+         DC    X'60' .             ATTRIBUTE BYTE              @DY13133 94869934
012B46 F2F0                      24235+         DC    X'F2F0'             LINE NUMBER                 @D34EDGA 94909934
012B48 4040404040404040          24236+         DC    CL77' ' .                                       @D34EDGA 94949934
012B95 1D                        24237+CRTSF21  DC    X'1D' .             START FIELD CHARACTER       @D34EDGA 94989934
                         12B96   24238+LNE21    EQU   *                   INSTRUCTION LINE            @DY15093 95029934
012B96 60                        24239+         DC    X'60' .             ATTRIBUTE BYTE              @DY13133 95079934
012B97 4040404040404040          24240+         DC    CL79' ' .                                       @D34EDGA 95129934
012BE6 1D                        24241+CRTSF22  DC    X'1D' .           START FIELD CHARACTER         @D34EDGA 95179934
                         12BE7   24242+LNE22    EQU   * .                 INPUT LINES 22 AND 23       @DY15093 95229934
012BE7 4013                      24243+         DC    XL2'4013' .       ATTR BYTE - SET CURSOR CHAR  @DY13133 95279934
012BE9 0000000000000000          24244+INPUTCH  DC    XL159'00' .                                     @D34EDGA 95329934
012C88 1D6000                    24245+WRNLNE   DC    X'1D6000' .       READ AREA / WRNG LNE 24 SF  @DY15093 95379934
                         12C8B   24246+SCRIMGE  EQU   *                 END OF SCREEN IMAGE BUFFER    @D34EDGA 95429934
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   24248+*                                                                  @D34EDGA 95529934
                                   24249+*        DEVICE BUFFER LINE ADDRESSES                              @D34EDGA 95579934
                                   24250+*                                                                  @D34EDGA 95629934
012C8C                             24251+CRTBUAD  DS    0H                                                  @DY20185 95630934
012C8C 4040                        24252+         DC    X'4040'           LINE 01 BUFFER ADDRESS            @DY20185 95631934
012C8E C150                        24253+         DC    X'C150'           LINE 02 BUFFER ADDRESS            @DY20185 95632934
012C90 C260                        24254+         DC    X'C260'           LINE 03 BUFFER ADDRESS            @DY20185 95633934
012C92 C3F0                        24255+         DC    X'C3F0'           LINE 04 BUFFER ADDRESS            @DY20185 95634934
012C94 C540                        24256+         DC    X'C540'           LINE 05 BUFFER ADDRESS            @DY20185 95635934
012C96 C650                        24257+         DC    X'C650'           LINE 06 BUFFER ADDRESS            @DY20185 95636934
012C98 C760                        24258+         DC    X'C760'           LINE 07 BUFFER ADDRESS            @DY20185 95637934
012C9A C8F0                        24259+         DC    X'C8F0'           LINE 08 BUFFER ADDRESS            @DY20185 95638934
012C9C 4A40                        24260+         DC    X'4A40'           LINE 09 BUFFER ADDRESS            @DY20185 95639934
012C9E 4B50                        24261+         DC    X'4B50'           LINE 10 BUFFER ADDRESS            @DY20185 95640934
012CA0 4C60                        24262+         DC    X'4C60'           LINE 11 BUFFER ADDRESS            @DY20185 95641934
012CA2 4DF0                        24263+         DC    X'4DF0'           LINE 12 BUFFER ADDRESS            @DY20185 95642934
012CA4 4F40                        24264+         DC    X'4F40'           LINE 13 BUFFER ADDRESS            @DY20185 95643934
012CA6 5050                        24265+         DC    X'5050'           LINE 14 BUFFER ADDRESS            @DY20185 95644934
012CA8 D160                        24266+         DC    X'D160'           LINE 15 BUFFER ADDRESS            @DY20185 95645934
012CAA D2F0                        24267+         DC    X'D2F0'           LINE 16 BUFFER ADDRESS            @DY20185 95646934
012CAC D440                        24268+         DC    X'D440'           LINE 17 BUFFER ADDRESS            @DY20185 95647934
012CAE D550                        24269+         DC    X'D550'           LINE 18 BUFFER ADDRESS            @DY20185 95648934
012CB0 D660                        24270+         DC    X'D660'           LINE 19 BUFFER ADDRESS            @DY20185 95649934
012CB2 D7F0                        24271+         DC    X'D7F0'           LINE 20 BUFFER ADDRESS            @DY20185 95650934
012CB4 D940                        24272+         DC    X'D940'           LINE 21 BUFFER ADDRESS            @DY20185 95651934
012CB6 5A50                        24273+         DC    X'5A50'           LINE 22 BUFFER ADDRESS            @DY20185 95652934
012CB8 5B60                        24274+         DC    X'5B60'           LINE 23 BUFFER ADDRESS            @DY20185 95653934
012CBA 5CF0                        24275+         DC    X'5CF0'           LINE 24 BUFFER ADDRESS            @DY20185 95654934
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 24277+*                                                                  @DY20185 95656934
                                 24278+*        DEVICE BUFFER LINE OFFSETS                                @DY20185 95657934
                                 24279+*                                                                  @DY20185 95658934
012CBC 0000                      24280+TABASE   DC    H'0'               LINE 1 POS. IN CU BUFFER     @DY15093 95679934
012CBE 0001                      24281+         DC    H'1'               EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 95729934
012CC0 0050                      24282+         DC    X'0050'            LINE 2 POS. IN CU BUFFER     @DY15093 95779934
012CC2 0002                      24283+         DC    H'2'               EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 95829934
012CC4 00A0                      24284+         DC    X'00A0'            LINE 3 POS. IN CU BUFFER     @DY15093 95879934
012CC6 0003                      24285+         DC    H'3'               EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 95929934
012CC8 00F0                      24286+         DC    X'00F0'            LINE 4 POS. IN CU BUFFER     @DY15093 95979934
012CCA 0004                      24287+         DC    H'4'               EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96029934
012CCC 0140                      24288+         DC    X'0140'            LINE 5 POS. IN CU BUFFER     @DY15093 96079934
012CCE 0005                      24289+         DC    H'5'               EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96129934
012CD0 0190                      24290+         DC    X'0190'            LINE 6 POS. IN CU BUFFER     @DY15093 96179934
012CD2 0006                      24291+         DC    H'6'               EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96229934
012CD4 01E0                      24292+         DC    X'01E0'            LINE 7 POS. IN CU BUFFER     @DY15093 96279934
012CD6 0007                      24293+         DC    H'7'               EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96329934
012CD8 0230                      24294+         DC    X'0230'            LINE 8 POS. IN CU BUFFER     @DY15093 96379934
012CDA 0008                      24295+         DC    H'8'               EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96429934
012CDC 0280                      24296+         DC    X'0280'            LINE 9 POS. IN CU BUFFER     @DY15093 96479934
012CDE 0009                      24297+         DC    H'9'               EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96529934
012CE0 02D0                      24298+         DC    X'02D0'            LINE 10 POS. IN CU BUFFER    @DY15093 96579934
012CE2 000A                      24299+         DC    H'10'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96629934
012CE4 0320                      24300+         DC    X'0320'            LINE 11 POS. IN CU BUFFER    @DY15093 96679934
012CE6 000B                      24301+         DC    H'11'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96729934
012CE8 0370                      24302+         DC    X'0370'            LINE 12 POS. IN CU BUFFER    @DY15093 96779934
012CEA 000C                      24303+         DC    H'12'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96829934
012CEC 03C0                      24304+         DC    X'03C0'            LINE 13 POS. IN CU BUFFER    @DY15093 96879934
012CEE 000D                      24305+         DC    H'13'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 96929934
012CF0 0410                      24306+         DC    X'0410'            LINE 14 POS. IN CU BUFFER    @DY15093 96979934
012CF2 000E                      24307+         DC    H'14'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 97029934
012CF4 0460                      24308+         DC    X'0460'            LINE 15 POS. IN CU BUFFER    @DY15093 97079934
012CF6 000F                      24309+         DC    H'15'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 97129934
012CF8 04B0                      24310+         DC    X'04B0'            LINE 16 POS. IN CU BUFFER    @DY15093 97179934
012CFA 0010                      24311+         DC    H'16'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 97229934
012CFC 0500                      24312+         DC    X'0500'            LINE 17 POS. IN CU BUFFER    @DY15093 97279934
012CFE 0011                      24313+         DC    H'17'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 97329934
012D00 0550                      24314+         DC    X'0550'            LINE 18 POS. IN CU BUFFER    @DY15093 97379934
012D02 0012                      24315+         DC    H'18'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 97429934
012D04 05A0                      24316+         DC    X'05A0'            LINE 19 POS. IN CU BUFFER    @DY15093 97479934
012D06 0013                      24317+         DC    H'19'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 97529934
012D08 05F0                      24318+         DC    X'05F0'            LINE 20 POS. IN CU BUFFER    @DY15093 97579934
012D0A 0014                      24319+         DC    H'20'              EQUIVALENT IN SCRIMG BUFFER  @D34EDGA 97629934
012D0C 0640                      24320+LASTIN   DC    X'0640'            BUFFER POS. START OF LINE 21 @DY15093 97679934
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  24322+*                                                                  @D34EDGA 98849934
                                  24323+*        FRAME FOR INSTRUCTION LINE + INPUT LINES + WRNG LINE      @D34EDGA 98889934
                                  24324+*                                                                  @D34EDGA 98929934
                           12D0E  24325+BLKLNE   EQU   *                                                   @D34EDGA 98969934
012D0E 42                         24326+         DC    AL1(RSTKYBD+X'40') WRITE CTRL CHAR                 @DY15093 99009934
012D0F 11                         24327+         DC    X'11'              SBA ORDER                       @D34EDGA 99039934
012D10 D940                       24328+DEVBUFF  DC    X'D940'            DEV BUFF ADDR OF INSTR LINE     @D34EDGA 99069934
012D12 1D                         24329+LSFATRB  DC    X'1D'              START FIELD ORDER               @D34EDGA 99099934
012D13 60                         24330+         DC    X'60'              ATTRIBUTE BYTE                  @DY13133 99129934
012D14 0000000000000000           24331+         DC    XL79'00'           USABLE POSITONS LINE 21         @DY15093 99179934
012D63 1D4013                     24332+FRAME3   DC    X'1D4013'          SF + ATTR BYTE + IC             @DY13133 99219934
012D66 0000000000000000           24333+         DC    XL155'00'          INPUT LINES 22 AND 23           @DY15093 99259934
                           12E01  24334+MSGWAIT  EQU   *                  LOC OF FRAME FOR MSG 0D05A      @D34EDGA 99299934
012E01 40                         24335+         DC    X'40'              WRITE CONTROL CHAR              @DY13979 99339934
012E02 11                         24336+SBAORD   DC    X'11'              LOCATION FOR SBA ORDER          @DA13133 99379934
012E03 5CF0                       24337+BUFFADR  DC    X'5CF0'            LOCATION FOR BUFFER ADDRESS     @DY15093 99419934
012E05 1D60                       24338+         DC    X'1D60'            SF+ATTR. BYTE OF WRNG LNE 24    @DY15093 99459934
012E07 0000000000000000           24339+FILLCHAR DC    XL56'00'           LOCATION FOR FILL CHARACTER     @D34EDGA 99579934
012E3F 0000000000000000           24340+MSGTEXT  DC    XL23'00'           LOCATION FOR MESSAGE TEXT       @D34EDGA 99629934
                           12E56  24341+FRAMEND  EQU   *                                                   @D34EDGA 99679934
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 24345+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * BSW       46200034
                                 24346+*                                                                          BSW 46250034
                                 24347+*        RESOURCE USAGE RECORDS AND WAIT LIST                              BSW 46300034
                                 24348+*                                                                          BSW 46350034
                                 24349+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * BSW 46400034

012E58                           24351+RURTAB   DS    0F .               TABLE OF RESOURCE USAGE RECORDS   BSW 46500034
                                 24352+*                                 TYPE 1 SYSTEM RUR'S          @DF00913 46550034
012E58 00000000                  24353+         DC    F'0' .                SYSPL - PROCEDURE LIBRARY @DF00913 46600034
                           12E5C 24354+S2RUR    EQU   * .                 TYPE 2 SYSTEM RUR'S          @DF00913 46650034
012E5C 00000000                  24355+         DC    F'0' .                SYSOPEN - VSAM OPEN       @DA08790 46700034
012E60 00000000                  24356+         DC    F'0' .                SYSLBL - LABEL CYLINDER   @DA08790 46750034
012E64 00000000                  24357+         DC    F'0' .                SYSRES - IJSYSRS FILE     @DA08790 46800034
012E68 00000000                  24358+         DC    F'0' .                SYSIXL - VSAM INDEX BUILD @DA08790 46850034
012E6C 00000000                  24359+         DC    F'0' .                SYSSPM - VSAM SPACE MNGR  @DA08790 46900034
012E70 00000000                  24360+         DC    F'0' .                SYSMCO - VSAM MASTER CTLG @DA08790 46950034
012E74 00000000                  24361+         DC    F'0' .                SYSCTLG - VSAM MASTER CATALOG  BSW 47000034
012E78 00000000                  24362+         DC    F'0' .                SYSVTOC - ALL VTOC'S           BSW 47050034
012E7C 00000000                  24363+         DC    F'0' .                  SYSSPLIT                @DL29VFS 47100034
012E80 00000000                  24364+         DC    F'0' .                  SYSSCB                  @DL29VFS 47150034
                           12E84 24365+NRUR     EQU   *                   NAMED RURS                   @D31DCAZ 47300034
012E84 00000000                  24366+         DC    F'0'                DUMMY RUR 'POOL EXHAUSTED'   @D31DCAZ 47350034
012E88 0000000000000000          24367+         DC    100XL12'00'         POOL OF NAMED RURS           @D31DCAZ 47400034

013338                           24369+WAITLIST DS    0XL32 .             WAIT LIST                         BSW 47800034
013338 FFFFFFFFFFFFFFFF          24370+         DC    16X'FFFF'      .      EMPTY SLOTS - 1 FOR EACH TASK  BSW 47850034
```

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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  24372+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D32PUHK 48050034
                                  24373+*                                                           *  @D32PUHK 48100034
                                  24374+*        EXTERNAL ECB TABLE.                                *  @D32PUHK 48150034
                                  24375+*                                                           *  @D32PUHK 48200034
                                  24376+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  @D32PUHK 48250034


013358                            24378+XECBTAB  DS    0F                ALIGNMENT                   @D32PUHK 48350034

013358 0000000000000000           24380+         DC    20XL16'00'                                    @D34XDJO 48900034
                            13498 24381+XECBTEND EQU   *       END OF XECB TABLE                     @D34XDJO 48950034
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 24383+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 49150034
                                 24384+*                                                                       * 49200034
                                 24385+*        CONSOLE BUFFER TABLE.                                          * 49250034
                                 24386+*                                                                       * 49300034
                                 24387+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 49350034

013498                           24389+CBTAB    DS    0D .               ALIGN CONSOLE BUFFER ON DBWORD    LAV 49450034
013498 000134B000000001          24390+CBCCW8     CCW X'00',CBDATA8,X'00',1     .                         LAV 49750034
                                 24391+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                    07100028
0134A0 0000                      24392+CBCCB8   DC    XL2'0' .           RESIDUAL COUNT                        49000028
0134A2 8000                      24393+         DC    XL2'8000'   .        COMMUNICATIONS BYTES                 50000028
0134A4 0000                      24394+         DC    XL2'0' .           CSW STATUS BYTES                      51000028
0134A6 00                        24395+         DC    AL1(0)      .           LOGICAL UNIT CLASS                52000028
0134A7 04                        24396+         DC    AL1(4)    .           LOGICAL UNIT                        53000028
0134A8 00                        24397+         DC    XL1'0'                                                    54000028
0134A9 013498                    24398+         DC    AL3(CBCCW8) .      CCW ADDRESS                           55000028
0134AC 00                        24399+         DC    B'00000000'     .      STATUS BYTE                       56000028
0134AD 000000                    24400+         DC    AL3(0) .           CSW CCW ADDRESS                       57000028
0134B0                           24401+CBDATA8     DS CL80 .           DATA FIELD IN CONSOLE BUFFER      LAV 49850034
013500 0001351800000001          24402+CBCCW7     CCW X'00',CBDATA7,X'00',1     .                         LAV 49750034
                                 24403+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                    07100028
013508 0000                      24404+CBCCB7   DC    XL2'0' .           RESIDUAL COUNT                        49000028
01350A 8000                      24405+         DC    XL2'8000'   .        COMMUNICATIONS BYTES                 50000028
01350C 0000                      24406+         DC    XL2'0' .           CSW STATUS BYTES                      51000028
01350E 00                        24407+         DC    AL1(0)      .           LOGICAL UNIT CLASS                52000028
01350F 04                        24408+         DC    AL1(4)    .           LOGICAL UNIT                        53000028
013510 00                        24409+         DC    XL1'0'                                                    54000028
013511 013500                    24410+         DC    AL3(CBCCW7) .      CCW ADDRESS                           55000028
013514 00                        24411+         DC    B'00000000'     .      STATUS BYTE                       56000028
013515 000000                    24412+         DC    AL3(0) .           CSW CCW ADDRESS                       57000028
013518                           24413+CBDATA7     DS CL80 .           DATA FIELD IN CONSOLE BUFFER      LAV 49850034
013568 0001358000000001          24414+CBCCW6     CCW X'00',CBDATA6,X'00',1     .                         LAV 49750034
                                 24415+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                    07100028
013570 0000                      24416+CBCCB6   DC    XL2'0' .           RESIDUAL COUNT                        49000028
013572 8000                      24417+         DC    XL2'8000'   .        COMMUNICATIONS BYTES                 50000028
013574 0000                      24418+         DC    XL2'0' .           CSW STATUS BYTES                      51000028
013576 00                        24419+         DC    AL1(0)      .           LOGICAL UNIT CLASS                52000028
013577 04                        24420+         DC    AL1(4)    .           LOGICAL UNIT                        53000028
013578 00                        24421+         DC    XL1'0'                                                    54000028
013579 013568                    24422+         DC    AL3(CBCCW6) .      CCW ADDRESS                           55000028
01357C 00                        24423+         DC    B'00000000'     .      STATUS BYTE                       56000028
01357D 000000                    24424+         DC    AL3(0) .           CSW CCW ADDRESS                       57000028
013580                           24425+CBDATA6     DS CL80 .           DATA FIELD IN CONSOLE BUFFER      LAV 49850034
0135D0 000135E800000001          24426+CBCCW5     CCW X'00',CBDATA5,X'00',1     .                         LAV 49750034
                                 24427+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                    07100028
0135D8 0000                      24428+CBCCB5   DC    XL2'0' .           RESIDUAL COUNT                        49000028
0135DA 8000                      24429+         DC    XL2'8000'   .        COMMUNICATIONS BYTES                 50000028
0135DC 0000                      24430+         DC    XL2'0' .           CSW STATUS BYTES                      51000028
0135DE 00                        24431+         DC    AL1(0)      .           LOGICAL UNIT CLASS                52000028
0135DF 04                        24432+         DC    AL1(4)    .           LOGICAL UNIT                        53000028
0135E0 00                        24433+         DC    XL1'0'                                                    54000028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0135E1 0135D0                     24434+         DC    AL3(CBCCW5) .      CCW ADDRESS                          55000028
0135E4 00                         24435+         DC    B'00000000'     .      STATUS BYTE                     56000028
0135E5 000000                     24436+         DC    AL3(0) .           CSW CCW ADDRESS                      57000028
0135E8                            24437+CBDATA5     DS CL80 .             DATA FIELD IN CONSOLE BUFFER      LAV 49850034
013638 0001365000000001           24438+CBCCW4     CCW X'00',CBDATA4,X'00',1     .                          LAV 49750034
                                  24439+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                   07100028
013640 0000                       24440+CBCCB4   DC    XL2'0' .           RESIDUAL COUNT                       49000028
013642 8000                       24441+         DC    XL2'8000'   .        COMMUNICATIONS BYTES               50000028
013644 0000                       24442+         DC    XL2'0' .           CSW STATUS BYTES                     51000028
013646 00                         24443+         DC    AL1(0)      .           LOGICAL UNIT CLASS              52000028
013647 04                         24444+         DC    AL1(4)    .           LOGICAL UNIT                      53000028
013648 00                         24445+         DC    XL1'0'                                                  54000028
013649 013638                     24446+         DC    AL3(CBCCW4) .      CCW ADDRESS                          55000028
01364C 00                         24447+         DC    B'00000000'     .      STATUS BYTE                     56000028
01364D 000000                     24448+         DC    AL3(0) .           CSW CCW ADDRESS                      57000028
013650                            24449+CBDATA4     DS CL80 .             DATA FIELD IN CONSOLE BUFFER      LAV 49850034
0136A0 000136B800000001           24450+CBCCW3     CCW X'00',CBDATA3,X'00',1     .                          LAV 49750034
                                  24451+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                   07100028
0136A8 0000                       24452+CBCCB3   DC    XL2'0' .           RESIDUAL COUNT                       49000028
0136AA 8000                       24453+         DC    XL2'8000'   .        COMMUNICATIONS BYTES               50000028
0136AC 0000                       24454+         DC    XL2'0' .           CSW STATUS BYTES                     51000028
0136AE 00                         24455+         DC    AL1(0)      .           LOGICAL UNIT CLASS              52000028
0136AF 04                         24456+         DC    AL1(4)    .           LOGICAL UNIT                      53000028
0136B0 00                         24457+         DC    XL1'0'                                                  54000028
0136B1 0136A0                     24458+         DC    AL3(CBCCW3) .      CCW ADDRESS                          55000028
0136B4 00                         24459+         DC    B'00000000'     .      STATUS BYTE                     56000028
0136B5 000000                     24460+         DC    AL3(0) .           CSW CCW ADDRESS                      57000028
0136B8                            24461+CBDATA3     DS CL80 .             DATA FIELD IN CONSOLE BUFFER      LAV 49850034
013708 0001372000000001           24462+CBCCW2     CCW X'00',CBDATA2,X'00',1     .                          LAV 49750034
                                  24463+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                   07100028
013710 0000                       24464+CBCCB2   DC    XL2'0' .           RESIDUAL COUNT                       49000028
013712 8000                       24465+         DC    XL2'8000'   .        COMMUNICATIONS BYTES               50000028
013714 0000                       24466+         DC    XL2'0' .           CSW STATUS BYTES                     51000028
013716 00                         24467+         DC    AL1(0)      .           LOGICAL UNIT CLASS              52000028
013717 04                         24468+         DC    AL1(4)    .           LOGICAL UNIT                      53000028
013718 00                         24469+         DC    XL1'0'                                                  54000028
013719 013708                     24470+         DC    AL3(CBCCW2) .      CCW ADDRESS                          55000028
01371C 00                         24471+         DC    B'00000000'     .      STATUS BYTE                     56000028
01371D 000000                     24472+         DC    AL3(0) .           CSW CCW ADDRESS                      57000028
013720                            24473+CBDATA2     DS CL80 .             DATA FIELD IN CONSOLE BUFFER      LAV 49850034
013770 0001378800000001           24474+CBCCW1     CCW X'00',CBDATA1,X'00',1     .                          LAV 49750034
                                  24475+* SUPVR COMMN MACROS - CCB - 5745-SC-SUP - REL. 28.0                   07100028
013778 0000                       24476+CBCCB1   DC    XL2'0' .           RESIDUAL COUNT                       49000028
01377A 8000                       24477+         DC    XL2'8000'   .        COMMUNICATIONS BYTES               50000028
01377C 0000                       24478+         DC    XL2'0' .           CSW STATUS BYTES                     51000028
01377E 00                         24479+         DC    AL1(0)      .           LOGICAL UNIT CLASS              52000028
01377F 04                         24480+         DC    AL1(4)    .           LOGICAL UNIT                      53000028
013780 00                         24481+         DC    XL1'0'                                                  54000028
013781 013770                     24482+         DC    AL3(CBCCW1) .      CCW ADDRESS                          55000028
013784 00                         24483+         DC    B'00000000'     .      STATUS BYTE                     56000028
013785 000000                     24484+         DC    AL3(0) .           CSW CCW ADDRESS                      57000028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19
013788                            24485+CBDATA1     DS CL80 .            DATA FIELD IN CONSOLE BUFFER      LAV 49850034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  24487+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 50100034
                                  24488+*                                                                             * 50150034
                                  24489+*        RMS TABLES AND ROUTINES.                                             * 50200034
                                  24490+*                                                                             * 50250034
                                  24491+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 50300034

0137D8                            24493+         DS    0D .                 FORCE DOUBLE WORD                    HL 50400034
                            137D8 24494+RFTABLE  EQU   * .                  RECORDER FILE TABLE                  HL 50450034
0137D8 24                         24495+RFFLAGS1 DC    B'00100100'      .      FLAG BYTE 1                      HL 50500034
                                  24496+*                                                                          HL 50550034
                            00080 24497+RFFULL   EQU   X'80' .             THE FILE IS FULL                     HL 50600034
                            00040 24498+RFRDE    EQU   X'40' .             RDE OPTION                           HL 50650034
                            00020 24499+RFIPL    EQU   X'20' .             INITIAL IPL                          HL 50700034
                            00010 24500+RFNO     EQU   X'10' .             RF=NO OPTION                         HL 50750034
                            00008 24501+RFCREATE EQU   X'08' .             FILE IS TO BE CREATED                HL 50800034
                            00004 24502+RFBUILT  EQU   X'04' .             FILE HAS BEEN CREATED                HL 50850034
                            00002 24503+RFRESB1  EQU   X'02' .             RESERVED FOR FUTURE USE              HL 50900034
                            00001 24504+RFREADY  EQU   X'01' .             FILE IS OPEN AND READY               HL 50950034
                                  24505+*                                                                          HL 51000034
0137D9 00                         24506+RFFLAGS2 DC    XL1'00' .           RECORDER FILE STATUS BYTE 2          HL 51050034
                                  24507+*                                                                          HL 51100034
                            00080 24508+FFMSG    EQU   X'80' .             FILE FULL MESSAGE REQUEST            HL 51150034
                            00040 24509+LTMSG    EQU   X'40' .             LAST TRACK MESSAGE REQUEST           HL 51200034
                            00020 24510+IOERRMSG EQU   X'20' .             I/O ERROR MESSAGE REQUEST            HL 51250034
                            00010 24511+DLMSG    EQU   X'10' .             DATA LOST MESSAGE REQUEST            HL 51300034
                            00008 24512+RFEVA    EQU   X'08' .             EVA MESSAGE REQUESTED                HL 51350034
                            00004 24513+RFRTAOWN EQU   X'04' .             FILE IS OWNED BY RTA                 HL 51400034
                            00002 24514+RFPTAOWN EQU   X'02' .             FILE IS OWNED BY PTA                 HL 51450034
                            00001 24515+RFEREP   EQU   X'01' .             FILE IS BEING USED BY EREP           HL 51500034
                                  24516+*                                                                          HL 51550034
0137DA 00                         24517+RFFLAGS3 DC    B'00000000'      .      RECORDER FILE FLAG BYTE 3       HL 51600034
                                  24518+*                                                                          HL 51650034
                            00080 24519+LTMISSUD EQU   X'80' .             LAST TRACK MSG ISSUED ONCE           HL 51700034
                            00040 24520+RECDERR  EQU   X'40' .             ERROR IS TO BE RECORDED              HL 51750034
                            00020 24521+RECDSF   EQU   X'20' .             SHORT FORM RECORD REQUEST            HL 51800034
                            00010 24522+RFIRULT  EQU   X'10' .             INDIVIDUAL RECORDS FOR UL TAPES      HL 51850034
                            00002 24523+RFBOMT05 EQU   X'02' .             EXIT TO $$BOMT05 INDICATOR OPEN      HL 51900034
                            00001 24524+RFBOMT01 EQU   X'01' .             EXIT TO $$BOMT01 INDICATOR OPEN      HL 51950034
0137DB 00                         24525+RFFLAGS4 DC    XL1'00' .           RECORDER FILE FLAGS 4                HL 52000034
                            00001 24526+RFRNW    EQU   X'01' .             NO RECORD WRITTEN                    HL 52050034
0137DC 00                         24527+RFFLAGS5 DC    XL1'00' .           RECORDER FILE FLAGS 5                HL 52100034
0137DD 00                         24528+RFNOFN   DC    XL1'00' .           N OF N FOR OBR RECORDS               HL 52150034
0137DE 00                         24529+RFRECTYP DC    XL1'00' .           RECORD TYPE CODE                     HL 52200034
0137DF 28                         24530+RFREL    DC    B'00101000' .       DOS ID/RELEASE LEVEL CODE    @D34DDPS 52650034
                                  24531+******** X'28' MEANS RELEASE 34 ********                          @D34DDPS 52700034
0137E0 00                         24532+RFRDSW1  DC    XL1'00' .           RECORD DEPENDANT SWITCHES 1          HL 52750034
0137E1 00                         24533+RFRDSW2  DC    XL1'00' .           RECORD DEPENDANT SWITCHES 2          HL 52800034
0137E2                            24534+RFEXIT   DS    0XL2 .              EXIT NAME OR ADDRESS                 HL 52850034
0137E2 00                         24535+RFEXIT0  DC    XL1'00' .           NAME OR EXIT ADDRESS BYTE 0          HL 52900034
0137E3 00                         24536+RFEXIT1  DC    XL1'00' .           NAME OR EXIT ADDRESS BYTE 1          HL 52950034
0137E4 0000                       24537+RFMCONST DC    H'0' .              MULTIPLIER FOR TRACK BALANCE         HL 53000034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0137E6 0000                      24538+RFDCONST DC    H'0' .             DIVISOR FOR TRACK BALANCE          HL 53050034
0137E8 0000                      24539+RFOCONST DC    H'0' .             OVERHEAD FOR TRACK BALANCE         HL 53100034
0137EA 0000                      24540+RFRECLEN DC    H'0' .             LENGTH OF RECORD                   HL 53150034
0137EC 0000B22A                  24541+RFTIMEA  DC    A(SVC34) .         ADDRESS OF GETIME FOR RMSR         HL 53200034
0137F0 00000000                  24542+RFRECADR DC    F'0' .             ADDRESS OF RECORD                  HL 53250034
0137F4 00000000000000            24543+RFSEEK   DC    XL7'00' .          WORK AREA FOR SEEK ADDRESS         HL 53300034
0137FB 00                        24544+RFEREPK  DC    XL1'00' .          KEY OF EREP PARTITION             *PG 53350034
0137FC 00000000                  24545+RFHDRCH  DC    XL4'00' .          SYSREC CYLINDER/HEAD               HL 53400034
013800 00                        24546+RFCHMAP  DC    XL1'00' .          MAP OF SUPPORTED CHANNELS          HL 53450034
013801 000000                    24547+RFCHIDC  DC    XL3'00' .          CHANNEL ID CODES                   HL 53500034
013804 06                        24548+RFEVARTH DC    AL1(6)     .           EVA READ THRESHOLD             HL 53600034
013805 06                        24549+RFEVAWTH DC    AL1(6)     .           EVA WRITE THRESHOLD            HL 53650034
013806 0CB8                      24550+RFP2ENTL DC    AL2(PUB2AEND-PUB2AREA) LENGTH OF PUB2 ENTRY AREA      HL 53700034
013808 0001393C                  24551+RFP2ENT  DC    A(PUB2AREA) .      ADDRESS OF PUB2 AREA               HL 53750034
01380C 0000000000000000          24552+RFP2ITAB DC    151X'0000'    .        PUB2 INDEX TABLE               HL 53800034
01393C                           24553+         DS    0F .               ALIGNE ON F/W BOUNDARY             HL 53850034
01393C 0000000000000000          24554+PUB2AREA DC    3256X'00'   .         PUB2 SPACE                     HL 53900034
0145F4                           24555+PUB2AEND DS    0H .               END OF PUB2 SPACE                  HL 53950034


                                 24557+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 54150034
                                 24558+*                                                                      * 54200034
                                 24559+*        SYSPARM FIELDS.                                               * 54250034
                                 24560+*                                                                      * 54300034
                                 24561+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 54350034

0145F4 0000000000000000          24563+SPARMF1      DC    XL9'00' .  &P(&X) SYSPARM FIELD                   LDR 54550034
0145FD 0000000000000000          24564+SPARMF2      DC    XL9'00' .  &P(&X) SYSPARM FIELD                   LDR 54550034
014606 0000000000000000          24565+SPARMF3      DC    XL9'00' .  &P(&X) SYSPARM FIELD                   LDR 54550034
01460F 0000000000000000          24566+SPARMF4      DC    XL9'00' .  &P(&X) SYSPARM FIELD                   LDR 54550034
014618 0000000000000000          24567+SPARMBG      DC    XL9'00' .  &P(&X) SYSPARM FIELD                   LDR 54550034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 24569+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 54850034
                                 24570+*                                                                             * 54900034
                                 24571+*        ASCII TO EBCDIC TRANSLATE TABLE                                      * 54950034
                                 24572+*                                                                             * 55000034
                                 24573+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 55050034

014621 00010203372D2E2F          24575+ASCIITAB DC    X'00010203372D2E2F1605250B0C0D0E0F10111213'                     55150034
014635 3C3D322618193F27          24576+         DC    X'3C3D322618193F271C1D1E1F404F7F7B5B6C507D'                     55200034
014649 4D5D5C4E6B604B61          24577+         DC    X'4D5D5C4E6B604B61F0F1F2F3F4F5F6F7F8F97A5E'                     55250034
01465D 4C7E6E6F7CC1C2C3          24578+         DC    X'4C7E6E6F7CC1C2C3C4C5C6C7C8C9D1D2D3D4D5D6'                     55300034
014671 D7D8D9E2E3E4E5E6          24579+         DC    X'D7D8D9E2E3E4E5E6E7E8E94AE05A5F6D79818283'                     55350034
014685 8485868788899192          24580+         DC    X'848586878889919293949596979899A2A3A4A5A6'                     55400034
014699 A7A8A9C06AD0A107          24581+         DC    X'A7A8A9C06AD0A107'                                             55450034
0146A1 3F3F3F3F3F3F3F3F          24582+         DC    128X'3F'                                                        55500034


                                 24584+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 55600034
                                 24585+*                                                                             * 55650034
                                 24586+*        EBCDIC TO ASCII TRANSLATE TABLE                                      * 55700034
                                 24587+*                                                                             * 55750034
                                 24588+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 55800034

                                 24590+*                                                                               55900034
                                 24591+*   EBCDIC TO ASCII TRANSLATE TABLE                                             55950034
                                 24592+*                                                                               56000034
014721 000102031A091A7F          24593+         DC    X'000102031A091A7F1A1A1A0B0C0D0E0F10111213'                     56050034
014735 1A1A081A18191A1A          24594+         DC    X'1A1A081A18191A1A1C1D1E1F1A1A1A1A1A0A171B'                     56100034
014749 1A1A1A1A1A050607          24595+         DC    X'1A1A1A1A1A0506071A1A161A1A1A1A041A1A1A1A'                     56150034
01475D 14151A1A20                24596+         DC    X'14151A1A20'                                                   56200034
014762 1A1A1A1A1A1A1A1A          24597+         DC    9X'1A'                                                          56250034
01476B 5B2E3C282B2126            24598+         DC    X'5B2E3C282B2126'                                               56300034
014772 1A1A1A1A1A1A1A1A          24599+         DC    9X'1A'                                                          56350034
01477B 5D242A293B5E2D2F          24600+         DC    X'5D242A293B5E2D2F'                                             56400034
014783 1A1A1A1A1A1A1A1A          24601+         DC    8X'1A'                                                          56450034
01478B 7C2C255F3E3F              24602+         DC    X'7C2C255F3E3F'                                                 56500034
014791 1A1A1A1A1A1A1A1A          24603+         DC    9X'1A'                                                          56550034
01479A 603A2340273D221A          24604+         DC    X'603A2340273D221A616263646566676869'                           56600034
0147AB 1A1A1A1A1A1A1A            24605+         DC    7X'1A'                                                          56650034
0147B2 6A6B6C6D6E6F7071          24606+         DC    X'6A6B6C6D6E6F707172'                                           56700034
0147BB 1A1A1A1A1A1A1A            24607+         DC    7X'1A'                                                          56750034
0147C2 7E73747576777879          24608+         DC    X'7E737475767778797A'                                           56800034
0147CB 1A1A1A1A1A1A1A1A          24609+         DC    22X'1A'                                                         56850034
0147E1 7B41424344454647          24610+         DC    X'7B414243444546474849'                                         56900034
0147EB 1A1A1A1A1A1A              24611+         DC    6X'1A'                                                          56950034
0147F1 7D4A4B4C4D4E4F50          24612+         DC    X'7D4A4B4C4D4E4F505152'                                         57000034
0147FB 1A1A1A1A1A1A              24613+         DC    6X'1A'                                                          57050034
014801 5C1A535455565758          24614+         DC    X'5C1A535455565758595A'                                         57100034
01480B 1A1A1A1A1A1A              24615+         DC    6X'1A'                                                          57150034
014811 3031323334353637          24616+         DC    X'3031323334353637383839'                                       57200034
01481B 1A1A1A1A1A1A              24617+         DC    6X'1A'                                                          57250034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                 24620+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 57450034
                                 24621+*                                                                               * 57500034
                                 24622+*               FETCH TABLE  (DSECT IN SEND)                                    * 57550034
                                 24623+*                                                                               * 57600034
                                 24624+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 57650034

                                 24626+*       ENTRY FOR SYSRES                                                          57750034
014824                           24628+FTTAB   DS    0F                FULLWORD ALIGNMENT           @DL29ZCJ 57850034
014824 0001489C                  24629+SSLDDIR DC    AL4(SSLD)         ADDRESS OF SECOND LEVEL DIR. @DL29ZCJ 57900034
014828 0000                      24630+STCDIR  DC    H'0'              TRACKS/CYLINDER              @DL29ZCJ 57950034
01482A 0000                      24631+SBTDIR  DC    H'0'              LIBRARY(1K) BLOCKS/TRACK     @DL29ZCJ 58000034
01482C                           24632+SCATLDIR DS   0XL6              BBCCHH FOR MAIN CATALOG START@DL29ZCJ 58050034
01482C 00000000                  24633+        DC    XL4'00'           BBCC                         @DL29ZCJ 58100034
014830 0002                      24634+SCATHDIR DC   XL2'02'           HH                           @DL29ZCJ 58150034
014832 000000000000              24635+SLINKDIR DC   XL6'00'           BBCCHH FOR LINK AREA START   @DL29ZCJ 58200034

                                 24637+*       ENTRY FOR PARTITION                                                       58550034

014838 0001498E                  24639+        DC    AL4(BGSLD)        ADDRESS OF SECOND LEVEL DIR. @DL29ZCJ 58700034
01483C 0000                      24640+        DC    H'0'              TRACKS/CYLINDER              @DL29ZCJ 58950034
01483E 0000                      24641+        DC    H'0'              LIBRARY(1K) BLOCKS/TRACK     @DL29ZCJ 59000034
014840 000000000000              24642+        DC    XL6'00'           BBCCHH FOR MAIN CATALOG START@DL29ZCJ 59050034
014846 000000000000              24643+        DC    XL6'00'           BBCCHH FOR LINK AREA START   @DL29ZCJ 59100034

                                 24645+*       ENTRY FOR PARTITION                                                       58550034

01484C 000149B8                  24647+        DC    AL4(F4SLD)        ADDRESS OF SECOND LEVEL DIR. @DL29ZCJ 58700034
014850 0000                      24648+        DC    H'0'              TRACKS/CYLINDER              @DL29ZCJ 58950034
014852 0000                      24649+        DC    H'0'              LIBRARY(1K) BLOCKS/TRACK     @DL29ZCJ 59000034
014854 000000000000              24650+        DC    XL6'00'           BBCCHH FOR MAIN CATALOG START@DL29ZCJ 59050034
01485A 000000000000              24651+        DC    XL6'00'           BBCCHH FOR LINK AREA START   @DL29ZCJ 59100034

                                 24653+*       ENTRY FOR PARTITION                                                       58550034

014860 000149E2                  24655+        DC    AL4(F3SLD)        ADDRESS OF SECOND LEVEL DIR. @DL29ZCJ 58700034
014864 0000                      24656+        DC    H'0'              TRACKS/CYLINDER              @DL29ZCJ 58950034
014866 0000                      24657+        DC    H'0'              LIBRARY(1K) BLOCKS/TRACK     @DL29ZCJ 59000034
014868 000000000000              24658+        DC    XL6'00'           BBCCHH FOR MAIN CATALOG START@DL29ZCJ 59050034
01486E 000000000000              24659+        DC    XL6'00'           BBCCHH FOR LINK AREA START   @DL29ZCJ 59100034

                                 24661+*       ENTRY FOR PARTITION                                                       58550034

014874 00014A0C                  24663+        DC    AL4(F2SLD)        ADDRESS OF SECOND LEVEL DIR. @DL29ZCJ 58700034
014878 0000                      24664+        DC    H'0'              TRACKS/CYLINDER              @DL29ZCJ 58950034
01487A 0000                      24665+        DC    H'0'              LIBRARY(1K) BLOCKS/TRACK     @DL29ZCJ 59000034
01487C 000000000000              24666+        DC    XL6'00'           BBCCHH FOR MAIN CATALOG START@DL29ZCJ 59050034
014882 000000000000              24667+        DC    XL6'00'           BBCCHH FOR LINK AREA START   @DL29ZCJ 59100034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  24669+*        ENTRY FOR PARTITION                                                58550034

014888 00014A36                   24671+         DC    AL4(F1SLD)         ADDRESS OF SECOND LEVEL DIR. @DL29ZCJ 58700034
01488C 0000                       24672+         DC    H'0'               TRACKS/CYLINDER              @DL29ZCJ 58950034
01488E 0000                       24673+         DC    H'0'               LIBRARY(1K) BLOCKS/TRACK     @DL29ZCJ 59000034
014890 000000000000               24674+         DC    XL6'00'            BBCCHH FOR MAIN CATALOG START@DL29ZCJ 59050034
014896 000000000000               24675+         DC    XL6'00'            BBCCHH FOR LINK AREA START   @DL29ZCJ 59100034


                                  24677+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 59350034
                                  24678+*                                                                          * 59400034
                                  24679+*              SECOND LEVEL DIRECTORIES                                    * 59450034
                                  24680+*                                                                          * 59500034
                                  24681+* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * 59550034

                                  24683+*        SLD   FOR SYSRES                                         @DL29ZCJ 59650034

01489C 001E                       24685+SSLD     DC    H'30'              NUMBER OF ENTRIES            @DL29ZCJ 59750034
01489E                            24686+         DS    30XL8              ENTRIES                      @DL29ZCJ 59800034

                                  24688+*        SLD   FOR PARTITION                                      @DL29ZCJ 60150034

01498E 0005                       24690+BGSLD    DC    H'5'               NUMBER OF ENTRIES            @DL29ZCJ 60250034
014990                            24691+         DS    5XL8               ENTRIES                      @DL29ZCJ 60300034

                                  24693+*        SLD   FOR PARTITION                                      @DL29ZCJ 60150034

0149B8 0005                       24695+F4SLD    DC    H'5'               NUMBER OF ENTRIES            @DL29ZCJ 60250034
0149BA                            24696+         DS    5XL8               ENTRIES                      @DL29ZCJ 60300034

                                  24698+*        SLD   FOR PARTITION                                      @DL29ZCJ 60150034

0149E2 0005                       24700+F3SLD    DC    H'5'               NUMBER OF ENTRIES            @DL29ZCJ 60250034
0149E4                            24701+         DS    5XL8               ENTRIES                      @DL29ZCJ 60300034

                                  24703+*        SLD   FOR PARTITION                                      @DL29ZCJ 60150034

014A0C 0005                       24705+F2SLD    DC    H'5'               NUMBER OF ENTRIES            @DL29ZCJ 60250034
014A0E                            24706+         DS    5XL8               ENTRIES                      @DL29ZCJ 60300034

                                  24708+*        SLD   FOR PARTITION                                      @DL29ZCJ 60150034

014A36 0005                       24710+F1SLD    DC    H'5'               NUMBER OF ENTRIES            @DL29ZCJ 60250034
014A38                            24711+         DS    5XL8               ENTRIES                      @DL29ZCJ 60300034

                           14A60  24713+IOTEND   EQU   * .                END OF IOTAB                             57565129


                                  24715+************************************************************************ 57580029
                                  24716+*                                                                        * 57590029
                                  24717+*        THE FOLLOWING SET OF EQUATES MUST BE GENERATED IN IOTAB,        * 57600028
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 24718+*        BECAUSE THEY ARE USED IN ORG STATEMENTS IN DVCGEN AND ASSGN  * 57640028
                                 24719+*                                                                     * 57680028
                                 24720+********************************************************************** 57720028

                           00002 24722+LUBLNG   EQU   2 .               LENGTH OF LUB ENTRY                    57800028
                           00008 24723+PUBLNG   EQU   8 .               LENGTH OF PUB ENTRY                    57840028
                           00096 24724+TOTDVC   EQU   150  .              TOTAL NUMBER OF DEVICES              57880028
                           00000 24725+TOTTAP   EQU   0    .              NUMBER OF TEB'S                  461 57890028
                           00018 24726+BUCKLNG  EQU   24 .              LENGTH OF CHANNEL BUCKET               57920028

                                 24728+*****    SYSTEM LUB IDENTIFIERS   *****                               58000028

                           00000 24730+SYSRDR   EQU   0                                                     58080028
                           00001 24731+SYSIPT   EQU   1                                                     58120028
                           00002 24732+SYSPCH   EQU   2                                                     58160028
                           00003 24733+SYSLST   EQU   3                                                     58200028
                           00004 24734+SYSLOG   EQU   4                                                     58240028
                           00005 24735+SYSLNK   EQU   5                                                     58280028
                           00006 24736+SYSRES   EQU   6                                                     58320028
                           00007 24737+SYSSLB   EQU   7                                                     58360028
                           00008 24738+SYSRLB   EQU   8                                                     58400028
                           00009 24739+SYSUSE   EQU   9                                                     58440028
                           0000A 24740+SYSREC   EQU   10                                                    58480028
                           0000B 24741+SYSCLB   EQU   11                                                    58520028
                           0000C 24742+SYSVIS   EQU   12                                                 EM 58570028
                           0000D 24743+SYSCAT   EQU   13                                                 EM 58620028
                                 24744+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

014A60                    01F65 24746+         ORG   FOCL+0    .           POINT TO FOCL ENTRY                 24900028
001F65 00                       24747+         DC    AL1(TOTDVC-150)  .   INDEX TO PUB TABLE                  25200028
001F66                    112CC 24748+         ORG   REGSAV+BUCKLNG*0    . POINT TO CHANNEL BUCKET             25800028
0112CC 00001F6C                 24749+         DC    A(PUBEND-PUBLNG*150)  ADDRESS OF FIRST PUB ON CHANNEL    26100028
0112D0                    01F6C 24750+         ORG   PUBEND-PUBLNG*150  . POINT TO PUB ENTRY FOR DEVICE       26700028
001F6C 000C                     24751+         DC    X'000C'  .          CHANNEL AND UNIT                    28800028
001F6E FF                       24752+         DC    X'FF' .            CHANNEL QUEUE POINTER                 29100028
001F6F 00                       24753+         DC    X'00' .            PUB ERROR COUNT                       30300028
001F70 11                       24754+         DC    AL1(T2540R)   .      DEVICE TYPE                         32700028
                          000F8 24755+MRD00C   EQU   X'F8' .            MODE FLAGS                            33300028
001F71 00                       24756+         DC    X'00' .            MODE BYTE                             35400028
001F72 00                       24757+         DC    AL1(M2540R+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001F73 F8                       24758+         DC    AL1(MRD00C+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                          00000 24759+P00C     EQU   TOTDVC-150  .       TO BE USED BY ASSIGN MACRO            44700028
                                24760+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                24761+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                24763+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
001F74 001C                     24764+         DC    X'001C'  .          CHANNEL AND UNIT                    28800028
001F76 FF                       24765+         DC    X'FF' .            CHANNEL QUEUE POINTER                 29100028
001F77 00                       24766+         DC    X'00' .            PUB ERROR COUNT                       30300028
001F78 11                       24767+         DC    AL1(T2540R)   .      DEVICE TYPE                         32700028
                          000F8 24768+MRD01C   EQU   X'F8' .            MODE FLAGS                            33300028
001F79 00                       24769+         DC    X'00' .            MODE BYTE                             35400028
001F7A 00                       24770+         DC    AL1(M2540R+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001F7B F8                       24771+         DC    AL1(MRD01C+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                          00001 24772+P01C     EQU   TOTDVC-149  .       TO BE USED BY ASSIGN MACRO            44700028
                                24773+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                24774+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                24776+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
001F7C 002C                     24777+         DC    X'002C'  .          CHANNEL AND UNIT                    28800028
001F7E FF                       24778+         DC    X'FF' .            CHANNEL QUEUE POINTER                 29100028
001F7F 00                       24779+         DC    X'00' .            PUB ERROR COUNT                       30300028
001F80 11                       24780+         DC    AL1(T2540R)   .      DEVICE TYPE                         32700028
                          000F8 24781+MRD02C   EQU   X'F8' .            MODE FLAGS                            33300028
001F81 00                       24782+         DC    X'00' .            MODE BYTE                             35400028
001F82 00                       24783+         DC    AL1(M2540R+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001F83 F8                       24784+         DC    AL1(MRD02C+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                          00002 24785+P02C     EQU   TOTDVC-148  .       TO BE USED BY ASSIGN MACRO            44700028
                                24786+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                24787+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                24789+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
001F84 003C                     24790+         DC    X'003C'  .          CHANNEL AND UNIT                    28800028
001F86 FF                       24791+         DC    X'FF' .            CHANNEL QUEUE POINTER                 29100028
001F87 00                       24792+         DC    X'00' .            PUB ERROR COUNT                       30300028
001F88 11                       24793+         DC    AL1(T2540R)   .      DEVICE TYPE                         32700028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           000F8 24794+MRD03C   EQU   X'F8' .            MODE FLAGS                                33300028
001F89 00                        24795+         DC    X'00' .            MODE BYTE                                 35400028
001F8A 00                        24796+         DC    AL1(M2540R+64*0)     . CHANNEL SCHEDULER FLAGS               44100028
001F8B F8                        24797+         DC    AL1(MRD03C+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                           00003 24798+P03C     EQU   TOTDVC-147  .       TO BE USED BY ASSIGN MACRO                44700028
                                 24799+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 24800+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 24802+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1             @DY11857 07520034
001F8C 000D                      24803+         DC    X'000D'  .          CHANNEL AND UNIT                          28800028
001F8E FF                        24804+         DC    X'FF' .            CHANNEL QUEU POINTER                      29100028
001F8F 00                        24805+         DC    X'00' .            PUB ERROR COUNT                           30300028
001F90 21                        24806+         DC    AL1(T2540P)   .      DEVICE TYPE                             32700028
                           000F8 24807+MRD00D   EQU   X'F8' .            MODE FLAGS                                33300028
001F91 00                        24808+         DC    X'00' .            MODE BYTE                                 35400028
001F92 00                        24809+         DC    AL1(M2540P+64*0)     . CHANNEL SCHEDULER FLAGS               44100028
001F93 F8                        24810+         DC    AL1(MRD00D+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                           00004 24811+P00D     EQU   TOTDVC-146  .       TO BE USED BY ASSIGN MACRO                44700028
                                 24812+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 24813+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 24815+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1             @DY11857 07520034
001F94 001D                      24816+         DC    X'001D'  .          CHANNEL AND UNIT                          28800028
001F96 FF                        24817+         DC    X'FF' .            CHANNEL QUEU POINTER                      29100028
001F97 00                        24818+         DC    X'00' .            PUB ERROR COUNT                           30300028
001F98 21                        24819+         DC    AL1(T2540P)   .      DEVICE TYPE                             32700028
                           000F8 24820+MRD01D   EQU   X'F8' .            MODE FLAGS                                33300028
001F99 00                        24821+         DC    X'00' .            MODE BYTE                                 35400028
001F9A 00                        24822+         DC    AL1(M2540P+64*0)     . CHANNEL SCHEDULER FLAGS               44100028
001F9B F8                        24823+         DC    AL1(MRD01D+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                           00005 24824+P01D     EQU   TOTDVC-145  .       TO BE USED BY ASSIGN MACRO                44700028
                                 24825+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 24826+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 24828+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1             @DY11857 07520034
001F9C 002D                      24829+         DC    X'002D'  .          CHANNEL AND UNIT                          28800028
001F9E FF                        24830+         DC    X'FF' .            CHANNEL QUEU POINTER                      29100028
001F9F 00                        24831+         DC    X'00' .            PUB ERROR COUNT                           30300028
001FA0 21                        24832+         DC    AL1(T2540P)   .      DEVICE TYPE                             32700028
                           000F8 24833+MRD02D   EQU   X'F8' .            MODE FLAGS                                33300028
001FA1 00                        24834+         DC    X'00' .            MODE BYTE                                 35400028
001FA2 00                        24835+         DC    AL1(M2540P+64*0)     . CHANNEL SCHEDULER FLAGS               44100028
001FA3 F8                        24836+         DC    AL1(MRD02D+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                           00006 24837+P02D     EQU   TOTDVC-144  .       TO BE USED BY ASSIGN MACRO                44700028
                                 24838+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 24839+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  24841+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
001FA4 003D                       24842+         DC    X'003D'  .          CHANNEL AND UNIT                      28800028
001FA6 FF                         24843+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
001FA7 00                         24844+         DC    X'00' .            PUB ERROR COUNT                       30300028
001FA8 21                         24845+         DC    AL1(T2540P)   .      DEVICE TYPE                         32700028
                            000F8 24846+MRD03D   EQU   X'F8' .            MODE FLAGS                            33300028
001FA9 00                         24847+         DC    X'00' .            MODE BYTE                             35400028
001FAA 00                         24848+         DC    AL1(M2540P+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001FAB F8                         24849+         DC    AL1(MRD03D+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            00007 24850+P03D     EQU   TOTDVC-143  .       TO BE USED BY ASSIGN MACRO            44700028
                                  24851+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  24852+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  24854+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
001FAC 000E                       24855+         DC    X'000E'  .          CHANNEL AND UNIT                      28800028
001FAE FF                         24856+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
001FAF 00                         24857+         DC    X'00' .            PUB ERROR COUNT                       30300028
001FB0 42                         24858+         DC    AL1(T1403U)   .      DEVICE TYPE                         32700028
                            000F8 24859+MRD00E   EQU   X'F8' .            MODE FLAGS                            33300028
001FB1 00                         24860+         DC    X'00' .            MODE BYTE                             35400028
001FB2 00                         24861+         DC    AL1(M1403U+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001FB3 F8                         24862+         DC    AL1(MRD00E+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            00008 24863+P00E     EQU   TOTDVC-142  .       TO BE USED BY ASSIGN MACRO            44700028
                                  24864+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  24865+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  24867+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
001FB4 000F                       24868+         DC    X'000F'  .          CHANNEL AND UNIT                      28800028
001FB6 FF                         24869+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
001FB7 00                         24870+         DC    X'00' .            PUB ERROR COUNT                       30300028
001FB8 42                         24871+         DC    AL1(T1403U)   .      DEVICE TYPE                         32700028
                            000F8 24872+MRD00F   EQU   X'F8' .            MODE FLAGS                            33300028
001FB9 00                         24873+         DC    X'00' .            MODE BYTE                             35400028
001FBA 00                         24874+         DC    AL1(M1403U+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001FBB F8                         24875+         DC    AL1(MRD00F+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            00009 24876+P00F     EQU   TOTDVC-141  .       TO BE USED BY ASSIGN MACRO            44700028
                                  24877+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  24878+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  24880+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
001FBC 001E                       24881+         DC    X'001E'  .          CHANNEL AND UNIT                      28800028
001FBE FF                         24882+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
001FBF 00                         24883+         DC    X'00' .            PUB ERROR COUNT                       30300028
001FC0 42                         24884+         DC    AL1(T1403U)   .      DEVICE TYPE                         32700028
                            000F8 24885+MRD01E   EQU   X'F8' .            MODE FLAGS                            33300028
001FC1 00                         24886+         DC    X'00' .            MODE BYTE                             35400028
001FC2 00                         24887+         DC    AL1(M1403U+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001FC3 F8                         24888+         DC    AL1(MRD01E+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0000A 24889+P01E     EQU   TOTDVC-140  .       TO BE USED BY ASSIGN MACRO           44700028
                                 24890+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 24891+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 24893+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
001FC4 002E                      24894+          DC    X'002E'  .          CHANNEL AND UNIT                    28800028
001FC6 FF                        24895+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
001FC7 00                        24896+          DC    X'00' .            PUB ERROR COUNT                     30300028
001FC8 42                        24897+          DC    AL1(T1403U)   .      DEVICE TYPE                       32700028
                           000F8 24898+MRD02E   EQU   X'F8' .            MODE FLAGS                          33300028
001FC9 00                        24899+          DC    X'00' .            MODE BYTE                           35400028
001FCA 00                        24900+          DC    AL1(M1403U+64*0)      . CHANNEL SCHEDULER FLAGS        44100028
001FCB F8                        24901+          DC    AL1(MRD02E+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0000B 24902+P02E     EQU   TOTDVC-139  .       TO BE USED BY ASSIGN MACRO           44700028
                                 24903+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 24904+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 24906+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
001FCC 003E                      24907+          DC    X'003E'  .          CHANNEL AND UNIT                    28800028
001FCE FF                        24908+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
001FCF 00                        24909+          DC    X'00' .            PUB ERROR COUNT                     30300028
001FD0 42                        24910+          DC    AL1(T1403U)   .      DEVICE TYPE                       32700028
                           000F8 24911+MRD03E   EQU   X'F8' .            MODE FLAGS                          33300028
001FD1 00                        24912+          DC    X'00' .            MODE BYTE                           35400028
001FD2 00                        24913+          DC    AL1(M1403U+64*0)      . CHANNEL SCHEDULER FLAGS        44100028
001FD3 F8                        24914+          DC    AL1(MRD03E+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0000C 24915+P03E     EQU   TOTDVC-138  .       TO BE USED BY ASSIGN MACRO           44700028
                                 24916+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 24917+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 24919+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
001FD4 004E                      24920+          DC    X'004E'  .          CHANNEL AND UNIT                    28800028
001FD6 FF                        24921+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
001FD7 00                        24922+          DC    X'00' .            PUB ERROR COUNT                     30300028
001FD8 42                        24923+          DC    AL1(T1403U)   .      DEVICE TYPE                       32700028
                           000F8 24924+MRD04E   EQU   X'F8' .            MODE FLAGS                          33300028
001FD9 00                        24925+          DC    X'00' .            MODE BYTE                           35400028
001FDA 00                        24926+          DC    AL1(M1403U+64*0)      . CHANNEL SCHEDULER FLAGS        44100028
001FDB F8                        24927+          DC    AL1(MRD04E+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0000D 24928+P04E     EQU   TOTDVC-137  .       TO BE USED BY ASSIGN MACRO           44700028
                                 24929+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 24930+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 24932+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
001FDC 005E                      24933+          DC    X'005E'  .          CHANNEL AND UNIT                    28800028
001FDE FF                        24934+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
001FDF 00                        24935+          DC    X'00' .            PUB ERROR COUNT                     30300028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001FE0 42                         24936+         DC    AL1(T1403U)   .      DEVICE TYPE                          32700028
                            000F8 24937+MRD05E   EQU   X'F8' .             MODE FLAGS                           33300028
001FE1 00                         24938+         DC    X'00' .             MODE BYTE                            35400028
001FE2 00                         24939+         DC    AL1(M1403U+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001FE3 F8                         24940+         DC    AL1(MRD05E+4*0)               JOB CONTROL FLAGS @DL29Y00 44400029
                            0000E 24941+P05E     EQU   TOTDVC-136  .       TO BE USED BY ASSIGN MACRO           44700028
                                  24942+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  24943+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  24945+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
001FE4 006E                       24946+         DC    X'006E'  .          CHANNEL AND UNIT                     28800028
001FE6 FF                         24947+         DC    X'FF' .             CHANNEL QUEU POINTER                 29100028
001FE7 00                         24948+         DC    X'00' .             PUB ERROR COUNT                      30300028
001FE8 42                         24949+         DC    AL1(T1403U)   .      DEVICE TYPE                         32700028
                            000F8 24950+MRD06E   EQU   X'F8' .             MODE FLAGS                           33300028
001FE9 00                         24951+         DC    X'00' .             MODE BYTE                            35400028
001FEA 00                         24952+         DC    AL1(M1403U+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001FEB F8                         24953+         DC    AL1(MRD06E+4*0)               JOB CONTROL FLAGS @DL29Y00 44400029
                            0000F 24954+P06E     EQU   TOTDVC-135  .       TO BE USED BY ASSIGN MACRO           44700028
                                  24955+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  24956+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  24958+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
001FEC 007E                       24959+         DC    X'007E'  .          CHANNEL AND UNIT                     28800028
001FEE FF                         24960+         DC    X'FF' .             CHANNEL QUEU POINTER                 29100028
001FEF 00                         24961+         DC    X'00' .             PUB ERROR COUNT                      30300028
001FF0 42                         24962+         DC    AL1(T1403U)   .      DEVICE TYPE                         32700028
                            000F8 24963+MRD07E   EQU   X'F8' .             MODE FLAGS                           33300028
001FF1 00                         24964+         DC    X'00' .             MODE BYTE                            35400028
001FF2 00                         24965+         DC    AL1(M1403U+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
001FF3 F8                         24966+         DC    AL1(MRD07E+4*0)               JOB CONTROL FLAGS @DL29Y00 44400029
                            00010 24967+P07E     EQU   TOTDVC-134  .       TO BE USED BY ASSIGN MACRO           44700028
                                  24968+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  24969+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  24971+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
001FF4 001F                       24972+         DC    X'001F'  .          CHANNEL AND UNIT                     28800028
001FF6 FF                         24973+         DC    X'FF' .             CHANNEL QUEU POINTER                 29100028
001FF7 00                         24974+         DC    X'00' .             PUB ERROR COUNT                      30300028
001FF8 B2                         24975+         DC    AL1(T125D)    .      DEVICE TYPE                         32700028
                            000F8 24976+MRD01F   EQU   X'F8' .             MODE FLAGS                           42800032
001FF9 00                         24977+         DC    X'00' .             CRT WITHOUT CONSOL PRINTER           43140032
001FFA 00                         24978+         DC    AL1(M125D+64*0)       . CHANNEL SCHEDULER FLAGS          44100028
001FFB F8                         24979+         DC    AL1(MRD01F+4*0)               JOB CONTROL FLAGS @DL29Y00 44400029
                            00011 24980+P01F     EQU   TOTDVC-133  .       TO BE USED BY ASSIGN MACRO           44700028
                                  24981+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  24982+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  24984+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
001FFC 0030                       24985+         DC    X'0030'  .          CHANNEL AND UNIT                      28800028
001FFE FF                         24986+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
001FFF 00                         24987+         DC    X'00' .            PUB ERROR COUNT                       30300028
002000 D0                         24988+         DC    AL1(T2701)    .      DEVICE TYPE                         32700028
                           000F8  24989+MRD030   EQU   X'F8' .            MODE FLAGS                            33300028
002001 00                         24990+         DC    X'00' .            MODE BYTE                             35400028
002002 00                         24991+         DC    AL1(M2701+64*0)       . CHANNEL SCHEDULER FLAGS          44100028
002003 F8                         24992+         DC    AL1(MRD030+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00012  24993+P030     EQU   TOTDVC-132  .       TO BE USED BY ASSIGN MACRO          44700028
                                  24994+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  24995+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  24997+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002004 0031                       24998+         DC    X'0031'  .          CHANNEL AND UNIT                      28800028
002006 FF                         24999+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
002007 00                         25000+         DC    X'00' .            PUB ERROR COUNT                       30300028
002008 D0                         25001+         DC    AL1(T2701)    .      DEVICE TYPE                         32700028
                           000F8  25002+MRD031   EQU   X'F8' .            MODE FLAGS                            33300028
002009 00                         25003+         DC    X'00' .            MODE BYTE                             35400028
00200A 00                         25004+         DC    AL1(M2701+64*0)       . CHANNEL SCHEDULER FLAGS          44100028
00200B F8                         25005+         DC    AL1(MRD031+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00013  25006+P031     EQU   TOTDVC-131  .       TO BE USED BY ASSIGN MACRO          44700028
                                  25007+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25008+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25010+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00200C 0032                       25011+         DC    X'0032'  .          CHANNEL AND UNIT                      28800028
00200E FF                         25012+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
00200F 00                         25013+         DC    X'00' .            PUB ERROR COUNT                       30300028
002010 D0                         25014+         DC    AL1(T2701)    .      DEVICE TYPE                         32700028
                           000F8  25015+MRD032   EQU   X'F8' .            MODE FLAGS                            33300028
002011 00                         25016+         DC    X'00' .            MODE BYTE                             35400028
002012 00                         25017+         DC    AL1(M2701+64*0)       . CHANNEL SCHEDULER FLAGS          44100028
002013 F8                         25018+         DC    AL1(MRD032+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00014  25019+P032     EQU   TOTDVC-130  .       TO BE USED BY ASSIGN MACRO          44700028
                                  25020+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25021+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25023+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002014 0033                       25024+         DC    X'0033'  .          CHANNEL AND UNIT                      28800028
002016 FF                         25025+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
002017 00                         25026+         DC    X'00' .            PUB ERROR COUNT                       30300028
002018 D0                         25027+         DC    AL1(T2701)    .      DEVICE TYPE                         32700028
                           000F8  25028+MRD033   EQU   X'F8' .            MODE FLAGS                            33300028
002019 00                         25029+         DC    X'00' .            MODE BYTE                             35400028
00201A 00                         25030+         DC    AL1(M2701+64*0)       . CHANNEL SCHEDULER FLAGS          44100028
00201B F8                         25031+         DC    AL1(MRD033+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00015 25032+P033     EQU   TOTDVC-129  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25033+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25034+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25036+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00201C 0070                      25037+         DC    X'0070'  .          CHANNEL AND UNIT                    28800028
00201E FF                        25038+         DC    X'FF' .            CHANNEL QUEU POINTER                29100028
00201F 00                        25039+         DC    X'00' .            PUB ERROR COUNT                     30300028
002020 D2                        25040+         DC    AL1(T2703)    .      DEVICE TYPE                         32700028
                           000F8 25041+MRD070   EQU   X'F8' .            MODE FLAGS                          33300028
002021 00                        25042+         DC    X'00' .            MODE BYTE                           35400028
002022 00                        25043+         DC    AL1(M2703+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
002023 F8                        25044+         DC    AL1(MRD070+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00016 25045+P070     EQU   TOTDVC-128  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25046+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25047+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25049+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002024 0071                      25050+         DC    X'0071'  .          CHANNEL AND UNIT                    28800028
002026 FF                        25051+         DC    X'FF' .            CHANNEL QUEU POINTER                29100028
002027 00                        25052+         DC    X'00' .            PUB ERROR COUNT                     30300028
002028 D2                        25053+         DC    AL1(T2703)    .      DEVICE TYPE                         32700028
                           000F8 25054+MRD071   EQU   X'F8' .            MODE FLAGS                          33300028
002029 00                        25055+         DC    X'00' .            MODE BYTE                           35400028
00202A 00                        25056+         DC    AL1(M2703+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
00202B F8                        25057+         DC    AL1(MRD071+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00017 25058+P071     EQU   TOTDVC-127  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25059+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25060+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25062+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00202C 0072                      25063+         DC    X'0072'  .          CHANNEL AND UNIT                    28800028
00202E FF                        25064+         DC    X'FF' .            CHANNEL QUEU POINTER                29100028
00202F 00                        25065+         DC    X'00' .            PUB ERROR COUNT                     30300028
002030 D2                        25066+         DC    AL1(T2703)    .      DEVICE TYPE                         32700028
                           000F8 25067+MRD072   EQU   X'F8' .            MODE FLAGS                          33300028
002031 00                        25068+         DC    X'00' .            MODE BYTE                           35400028
002032 00                        25069+         DC    AL1(M2703+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
002033 F8                        25070+         DC    AL1(MRD072+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00018 25071+P072     EQU   TOTDVC-126  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25072+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25073+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25075+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002034 0073                      25076+         DC    X'0073'  .          CHANNEL AND UNIT                    28800028
002036 FF                        25077+         DC    X'FF' .            CHANNEL QUEU POINTER                29100028
002037 00                        25078+         DC    X'00' .            PUB ERROR COUNT                     30300028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002038 D2                         25079+         DC    AL1(T2703)    .      DEVICE TYPE                          32700028
                            000F8 25080+MRD073   EQU   X'F8' .            MODE FLAGS                           33300028
002039 00                         25081+         DC    X'00' .            MODE BYTE                            35400028
00203A 00                         25082+         DC    AL1(M2703+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00203B F8                         25083+         DC    AL1(MRD073+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            00019 25084+P073     EQU   TOTDVC-125  .       TO BE USED BY ASSIGN MACRO           44700028
                                  25085+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25086+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25088+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00203C 0080                       25089+         DC    X'0080'  .          CHANNEL AND UNIT                     28800028
00203E FF                         25090+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
00203F 00                         25091+         DC    X'00' .            PUB ERROR COUNT                      30300028
002040 B0                         25092+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                            000F8 25093+MRD080   EQU   X'F8' .            MODE FLAGS                           33300028
002041 00                         25094+         DC    X'00' .            MODE BYTE                            35400028
002042 00                         25095+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002043 F8                         25096+         DC    AL1(MRD080+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            0001A 25097+P080     EQU   TOTDVC-124  .       TO BE USED BY ASSIGN MACRO           44700028
                                  25098+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25099+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25101+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002044 0081                       25102+         DC    X'0081'  .          CHANNEL AND UNIT                     28800028
002046 FF                         25103+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
002047 00                         25104+         DC    X'00' .            PUB ERROR COUNT                      30300028
002048 B0                         25105+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                            000F8 25106+MRD081   EQU   X'F8' .            MODE FLAGS                           33300028
002049 00                         25107+         DC    X'00' .            MODE BYTE                            35400028
00204A 00                         25108+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00204B F8                         25109+         DC    AL1(MRD081+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            0001B 25110+P081     EQU   TOTDVC-123  .       TO BE USED BY ASSIGN MACRO           44700028
                                  25111+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25112+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25114+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00204C 0082                       25115+         DC    X'0082'  .          CHANNEL AND UNIT                     28800028
00204E FF                         25116+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
00204F 00                         25117+         DC    X'00' .            PUB ERROR COUNT                      30300028
002050 B0                         25118+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                            000F8 25119+MRD082   EQU   X'F8' .            MODE FLAGS                           33300028
002051 00                         25120+         DC    X'00' .            MODE BYTE                            35400028
002052 00                         25121+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002053 F8                         25122+         DC    AL1(MRD082+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            0001C 25123+P082     EQU   TOTDVC-122  .       TO BE USED BY ASSIGN MACRO           44700028
                                  25124+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25125+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  25127+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002054 0083                       25128+         DC    X'0083'  .          CHANNEL AND UNIT                      28800028
002056 FF                         25129+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
002057 00                         25130+         DC    X'00' .           PUB ERROR COUNT                       30300028
002058 B0                         25131+         DC    AL1(T3277)    .     DEVICE TYPE                         32700028
                           000F8  25132+MRD083   EQU   X'F8' .           MODE FLAGS                            33300028
002059 00                         25133+         DC    X'00' .           MODE BYTE                             35400028
00205A 00                         25134+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00205B F8                         25135+         DC    AL1(MRD083+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0001D  25136+P083     EQU   TOTDVC-121  .      TO BE USED BY ASSIGN MACRO          44700028
                                  25137+*               IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25138+*               ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25140+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00205C 0084                       25141+         DC    X'0084'  .          CHANNEL AND UNIT                      28800028
00205E FF                         25142+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
00205F 00                         25143+         DC    X'00' .           PUB ERROR COUNT                       30300028
002060 B0                         25144+         DC    AL1(T3277)    .     DEVICE TYPE                         32700028
                           000F8  25145+MRD084   EQU   X'F8' .           MODE FLAGS                            33300028
002061 00                         25146+         DC    X'00' .           MODE BYTE                             35400028
002062 00                         25147+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002063 F8                         25148+         DC    AL1(MRD084+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0001E  25149+P084     EQU   TOTDVC-120  .      TO BE USED BY ASSIGN MACRO          44700028
                                  25150+*               IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25151+*               ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25153+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002064 0085                       25154+         DC    X'0085'  .          CHANNEL AND UNIT                      28800028
002066 FF                         25155+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
002067 00                         25156+         DC    X'00' .           PUB ERROR COUNT                       30300028
002068 B0                         25157+         DC    AL1(T3277)    .     DEVICE TYPE                         32700028
                           000F8  25158+MRD085   EQU   X'F8' .           MODE FLAGS                            33300028
002069 00                         25159+         DC    X'00' .           MODE BYTE                             35400028
00206A 00                         25160+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00206B F8                         25161+         DC    AL1(MRD085+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0001F  25162+P085     EQU   TOTDVC-119  .      TO BE USED BY ASSIGN MACRO          44700028
                                  25163+*               IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25164+*               ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25166+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00206C 0086                       25167+         DC    X'0086'  .          CHANNEL AND UNIT                      28800028
00206E FF                         25168+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
00206F 00                         25169+         DC    X'00' .           PUB ERROR COUNT                       30300028
002070 B0                         25170+         DC    AL1(T3277)    .     DEVICE TYPE                         32700028
                           000F8  25171+MRD086   EQU   X'F8' .           MODE FLAGS                            33300028
002071 00                         25172+         DC    X'00' .           MODE BYTE                             35400028
002072 00                         25173+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002073 F8                         25174+         DC    AL1(MRD086+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00020 25175+P086     EQU   TOTDVC-118  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25176+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25177+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25179+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002074 0087                      25180+          DC    X'0087'  .          CHANNEL AND UNIT                    28800028
002076 FF                        25181+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
002077 00                        25182+          DC    X'00' .            PUB ERROR COUNT                     30300028
002078 B0                        25183+          DC    AL1(T3277)    .      DEVICE TYPE                       32700028
                           000F8 25184+MRD087   EQU   X'F8' .            MODE FLAGS                          33300028
002079 00                        25185+          DC    X'00' .            MODE BYTE                           35400028
00207A 00                        25186+          DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
00207B F8                        25187+          DC    AL1(MRD087+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00021 25188+P087     EQU   TOTDVC-117  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25189+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25190+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25192+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00207C 0088                      25193+          DC    X'0088'  .          CHANNEL AND UNIT                    28800028
00207E FF                        25194+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
00207F 00                        25195+          DC    X'00' .            PUB ERROR COUNT                     30300028
002080 B0                        25196+          DC    AL1(T3277)    .      DEVICE TYPE                       32700028
                           000F8 25197+MRD088   EQU   X'F8' .            MODE FLAGS                          33300028
002081 00                        25198+          DC    X'00' .            MODE BYTE                           35400028
002082 00                        25199+          DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
002083 F8                        25200+          DC    AL1(MRD088+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00022 25201+P088     EQU   TOTDVC-116  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25202+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25203+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25205+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002084 0089                      25206+          DC    X'0089'  .          CHANNEL AND UNIT                    28800028
002086 FF                        25207+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
002087 00                        25208+          DC    X'00' .            PUB ERROR COUNT                     30300028
002088 B0                        25209+          DC    AL1(T3277)    .      DEVICE TYPE                       32700028
                           000F8 25210+MRD089   EQU   X'F8' .            MODE FLAGS                          33300028
002089 00                        25211+          DC    X'00' .            MODE BYTE                           35400028
00208A 00                        25212+          DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
00208B F8                        25213+          DC    AL1(MRD089+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00023 25214+P089     EQU   TOTDVC-115  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25215+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25216+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25218+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00208C 008A                      25219+          DC    X'008A'  .          CHANNEL AND UNIT                    28800028
00208E FF                        25220+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
00208F 00                        25221+          DC    X'00' .            PUB ERROR COUNT                     30300028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002090 B0                        25222+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                          000F8  25223+MRD08A   EQU   X'F8' .            MODE FLAGS                           33300028
002091 00                        25224+         DC    X'00' .            MODE BYTE                            35400028
002092 00                        25225+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002093 F8                        25226+         DC    AL1(MRD08A+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                          00024  25227+P08A     EQU   TOTDVC-114  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25228+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25229+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25231+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002094 008B                      25232+         DC    X'008B'  .          CHANNEL AND UNIT                     28800028
002096 FF                        25233+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
002097 00                        25234+         DC    X'00' .            PUB ERROR COUNT                      30300028
002098 B0                        25235+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                          000F8  25236+MRD08B   EQU   X'F8' .            MODE FLAGS                           33300028
002099 00                        25237+         DC    X'00' .            MODE BYTE                            35400028
00209A 00                        25238+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00209B F8                        25239+         DC    AL1(MRD08B+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                          00025  25240+P08B     EQU   TOTDVC-113  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25241+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25242+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25244+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00209C 008C                      25245+         DC    X'008C'  .          CHANNEL AND UNIT                     28800028
00209E FF                        25246+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
00209F 00                        25247+         DC    X'00' .            PUB ERROR COUNT                      30300028
0020A0 B0                        25248+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                          000F8  25249+MRD08C   EQU   X'F8' .            MODE FLAGS                           33300028
0020A1 00                        25250+         DC    X'00' .            MODE BYTE                            35400028
0020A2 00                        25251+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
0020A3 F8                        25252+         DC    AL1(MRD08C+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                          00026  25253+P08C     EQU   TOTDVC-112  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25254+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25255+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25257+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0020A4 008D                      25258+         DC    X'008D'  .          CHANNEL AND UNIT                     28800028
0020A6 FF                        25259+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
0020A7 00                        25260+         DC    X'00' .            PUB ERROR COUNT                      30300028
0020A8 B0                        25261+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                          000F8  25262+MRD08D   EQU   X'F8' .            MODE FLAGS                           33300028
0020A9 00                        25263+         DC    X'00' .            MODE BYTE                            35400028
0020AA 00                        25264+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
0020AB F8                        25265+         DC    AL1(MRD08D+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                          00027  25266+P08D     EQU   TOTDVC-111  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25267+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25268+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  25270+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0020AC 008E                       25271+         DC    X'008E'  .          CHANNEL AND UNIT                      28800028
0020AE FF                         25272+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
0020AF 00                         25273+         DC    X'00' .            PUB ERROR COUNT                       30300028
0020B0 B0                         25274+         DC    AL1(T3277)    .      DEVICE TYPE                        32700028
                            000F8 25275+MRD08E   EQU   X'F8' .            MODE FLAGS                            33300028
0020B1 01                         25276+         DC    X'01' .            MODE BYTE                             38100028
0020B2 00                         25277+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS          44100028
0020B3 F8                         25278+         DC    AL1(MRD08E+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            00028 25279+P08E     EQU   TOTDVC-110  .       TO BE USED BY ASSIGN MACRO            44700028
                                  25280+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25281+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25283+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0020B4 008F                       25284+         DC    X'008F'  .          CHANNEL AND UNIT                      28800028
0020B6 FF                         25285+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
0020B7 00                         25286+         DC    X'00' .            PUB ERROR COUNT                       30300028
0020B8 B0                         25287+         DC    AL1(T3277)    .      DEVICE TYPE                        32700028
                            000F8 25288+MRD08F   EQU   X'F8' .            MODE FLAGS                            33300028
0020B9 00                         25289+         DC    X'00' .            MODE BYTE                             35400028
0020BA 00                         25290+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS          44100028
0020BB F8                         25291+         DC    AL1(MRD08F+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            00029 25292+P08F     EQU   TOTDVC-109  .       TO BE USED BY ASSIGN MACRO            44700028
                                  25293+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25294+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25296+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0020BC 0090                       25297+         DC    X'0090'  .          CHANNEL AND UNIT                      28800028
0020BE FF                         25298+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
0020BF 00                         25299+         DC    X'00' .            PUB ERROR COUNT                       30300028
0020C0 B0                         25300+         DC    AL1(T3277)    .      DEVICE TYPE                        32700028
                            000F8 25301+MRD090   EQU   X'F8' .            MODE FLAGS                            33300028
0020C1 00                         25302+         DC    X'00' .            MODE BYTE                             35400028
0020C2 00                         25303+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS          44100028
0020C3 F8                         25304+         DC    AL1(MRD090+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                            0002A 25305+P090     EQU   TOTDVC-108  .       TO BE USED BY ASSIGN MACRO            44700028
                                  25306+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25307+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25309+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0020C4 0091                       25310+         DC    X'0091'  .          CHANNEL AND UNIT                      28800028
0020C6 FF                         25311+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
0020C7 00                         25312+         DC    X'00' .            PUB ERROR COUNT                       30300028
0020C8 B0                         25313+         DC    AL1(T3277)    .      DEVICE TYPE                        32700028
                            000F8 25314+MRD091   EQU   X'F8' .            MODE FLAGS                            33300028
0020C9 00                         25315+         DC    X'00' .            MODE BYTE                             35400028
0020CA 00                         25316+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS          44100028
0020CB F8                         25317+         DC    AL1(MRD091+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0002B 25318+P091     EQU   TOTDVC-107  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25319+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25320+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25322+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0020CC 0092                      25323+          DC    X'0092'  .          CHANNEL AND UNIT                    28800028
0020CE FF                        25324+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
0020CF 00                        25325+          DC    X'00' .            PUB ERROR COUNT                     30300028
0020D0 B0                        25326+          DC    AL1(T3277)    .      DEVICE TYPE                      32700028
                           000F8 25327+MRD092    EQU   X'F8' .            MODE FLAGS                          33300028
0020D1 00                        25328+          DC    X'00' .            MODE BYTE                           35400028
0020D2 00                        25329+          DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
0020D3 F8                        25330+          DC    AL1(MRD092+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0002C 25331+P092     EQU   TOTDVC-106  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25332+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25333+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25335+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0020D4 0093                      25336+          DC    X'0093'  .          CHANNEL AND UNIT                    28800028
0020D6 FF                        25337+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
0020D7 00                        25338+          DC    X'00' .            PUB ERROR COUNT                     30300028
0020D8 B0                        25339+          DC    AL1(T3277)    .      DEVICE TYPE                      32700028
                           000F8 25340+MRD093    EQU   X'F8' .            MODE FLAGS                          33300028
0020D9 00                        25341+          DC    X'00' .            MODE BYTE                           35400028
0020DA 00                        25342+          DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
0020DB F8                        25343+          DC    AL1(MRD093+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0002D 25344+P093     EQU   TOTDVC-105  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25345+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25346+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25348+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0020DC 0094                      25349+          DC    X'0094'  .          CHANNEL AND UNIT                    28800028
0020DE FF                        25350+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
0020DF 00                        25351+          DC    X'00' .            PUB ERROR COUNT                     30300028
0020E0 B0                        25352+          DC    AL1(T3277)    .      DEVICE TYPE                      32700028
                           000F8 25353+MRD094    EQU   X'F8' .            MODE FLAGS                          33300028
0020E1 00                        25354+          DC    X'00' .            MODE BYTE                           35400028
0020E2 00                        25355+          DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
0020E3 F8                        25356+          DC    AL1(MRD094+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0002E 25357+P094     EQU   TOTDVC-104  .       TO BE USED BY ASSIGN MACRO           44700028
                                 25358+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25359+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25361+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0020E4 0095                      25362+          DC    X'0095'  .          CHANNEL AND UNIT                    28800028
0020E6 FF                        25363+          DC    X'FF' .            CHANNEL QUEU POINTER                29100028
0020E7 00                        25364+          DC    X'00' .            PUB ERROR COUNT                     30300028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0020E8 B0                         25365+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                            000F8 25366+MRD095   EQU   X'F8' .            MODE FLAGS                           33300028
0020E9 00                         25367+         DC    X'00' .            MODE BYTE                            35400028
0020EA 00                         25368+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
0020EB F8                         25369+         DC    AL1(MRD095+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                            0002F 25370+P095     EQU   TOTDVC-103  .       TO BE USED BY ASSIGN MACRO           44700028
                                  25371+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25372+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25374+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
0020EC 0096                       25375+         DC    X'0096'  .          CHANNEL AND UNIT                     28800028
0020EE FF                         25376+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
0020EF 00                         25377+         DC    X'00' .            PUB ERROR COUNT                      30300028
0020F0 B0                         25378+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                            000F8 25379+MRD096   EQU   X'F8' .            MODE FLAGS                           33300028
0020F1 00                         25380+         DC    X'00' .            MODE BYTE                            35400028
0020F2 00                         25381+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
0020F3 F8                         25382+         DC    AL1(MRD096+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                            00030 25383+P096     EQU   TOTDVC-102  .       TO BE USED BY ASSIGN MACRO           44700028
                                  25384+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25385+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25387+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
0020F4 0097                       25388+         DC    X'0097'  .          CHANNEL AND UNIT                     28800028
0020F6 FF                         25389+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
0020F7 00                         25390+         DC    X'00' .            PUB ERROR COUNT                      30300028
0020F8 B0                         25391+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                            000F8 25392+MRD097   EQU   X'F8' .            MODE FLAGS                           33300028
0020F9 00                         25393+         DC    X'00' .            MODE BYTE                            35400028
0020FA 00                         25394+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
0020FB F8                         25395+         DC    AL1(MRD097+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                            00031 25396+P097     EQU   TOTDVC-101  .       TO BE USED BY ASSIGN MACRO           44700028
                                  25397+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25398+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25400+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
0020FC 0098                       25401+         DC    X'0098'  .          CHANNEL AND UNIT                     28800028
0020FE FF                         25402+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
0020FF 00                         25403+         DC    X'00' .            PUB ERROR COUNT                      30300028
002100 B0                         25404+         DC    AL1(T3277)    .      DEVICE TYPE                          32700028
                            000F8 25405+MRD098   EQU   X'F8' .            MODE FLAGS                           33300028
002101 00                         25406+         DC    X'00' .            MODE BYTE                            35400028
002102 00                         25407+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002103 F8                         25408+         DC    AL1(MRD098+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                            00032 25409+P098     EQU   TOTDVC-100  .       TO BE USED BY ASSIGN MACRO           44700028
                                  25410+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25411+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  25413+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002104 0099                       25414+         DC    X'0099'  .          CHANNEL AND UNIT                      28800028
002106 FF                         25415+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
002107 00                         25416+         DC    X'00' .           PUB ERROR COUNT                       30300028
002108 B0                         25417+         DC    AL1(T3277)    .     DEVICE TYPE                         32700028
                           000F8  25418+MRD099   EQU   X'F8' .           MODE FLAGS                            33300028
002109 00                         25419+         DC    X'00' .           MODE BYTE                             35400028
00210A 00                         25420+         DC    AL1(M3277+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
00210B F8                         25421+         DC    AL1(MRD099+4*0)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00033  25422+P099     EQU   TOTDVC-99   .      TO BE USED BY ASSIGN MACRO          44700028
                                  25423+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25424+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25426+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00210C 009A                       25427+         DC    X'009A'  .          CHANNEL AND UNIT                      28800028
00210E FF                         25428+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
00210F 00                         25429+         DC    X'00' .           PUB ERROR COUNT                       30300028
002110 B0                         25430+         DC    AL1(T3277)    .     DEVICE TYPE                         32700028
                           000F8  25431+MRD09A   EQU   X'F8' .           MODE FLAGS                            33300028
002111 00                         25432+         DC    X'00' .           MODE BYTE                             35400028
002112 00                         25433+         DC    AL1(M3277+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
002113 F8                         25434+         DC    AL1(MRD09A+4*0)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00034  25435+P09A     EQU   TOTDVC-98   .      TO BE USED BY ASSIGN MACRO          44700028
                                  25436+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25437+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25439+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002114 009B                       25440+         DC    X'009B'  .          CHANNEL AND UNIT                      28800028
002116 FF                         25441+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
002117 00                         25442+         DC    X'00' .           PUB ERROR COUNT                       30300028
002118 B0                         25443+         DC    AL1(T3277)    .     DEVICE TYPE                         32700028
                           000F8  25444+MRD09B   EQU   X'F8' .           MODE FLAGS                            33300028
002119 00                         25445+         DC    X'00' .           MODE BYTE                             35400028
00211A 00                         25446+         DC    AL1(M3277+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
00211B F8                         25447+         DC    AL1(MRD09B+4*0)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00035  25448+P09B     EQU   TOTDVC-97   .      TO BE USED BY ASSIGN MACRO          44700028
                                  25449+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25450+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25452+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00211C 009C                       25453+         DC    X'009C'  .          CHANNEL AND UNIT                      28800028
00211E FF                         25454+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
00211F 00                         25455+         DC    X'00' .           PUB ERROR COUNT                       30300028
002120 B0                         25456+         DC    AL1(T3277)    .     DEVICE TYPE                         32700028
                           000F8  25457+MRD09C   EQU   X'F8' .           MODE FLAGS                            33300028
002121 00                         25458+         DC    X'00' .           MODE BYTE                             35400028
002122 00                         25459+         DC    AL1(M3277+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
002123 F8                         25460+         DC    AL1(MRD09C+4*0)            JOB CONTROL FLAGS @DL29Y00 44400029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00036 25461+P09C     EQU   TOTDVC-96   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25462+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25463+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25465+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002124 009D                      25466+         DC    X'009D'  .          CHANNEL AND UNIT                     28800028
002126 FF                        25467+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
002127 00                        25468+         DC    X'00' .            PUB ERROR COUNT                      30300028
002128 B0                        25469+         DC    AL1(T3277)    .      DEVICE TYPE                       32700028
                           000F8 25470+MRD09D   EQU   X'F8' .            MODE FLAGS                           33300028
002129 00                        25471+         DC    X'00' .            MODE BYTE                            35400028
00212A 00                        25472+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00212B F8                        25473+         DC    AL1(MRD09D+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00037 25474+P09D     EQU   TOTDVC-95   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25475+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25476+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25478+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00212C 009E                      25479+         DC    X'009E'  .          CHANNEL AND UNIT                     28800028
00212E FF                        25480+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
00212F 00                        25481+         DC    X'00' .            PUB ERROR COUNT                      30300028
002130 B0                        25482+         DC    AL1(T3277)    .      DEVICE TYPE                       32700028
                           000F8 25483+MRD09E   EQU   X'F8' .            MODE FLAGS                           33300028
002131 01                        25484+         DC    X'01' .            MODE BYTE                            38100028
002132 00                        25485+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002133 F8                        25486+         DC    AL1(MRD09E+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00038 25487+P09E     EQU   TOTDVC-94   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25488+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25489+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25491+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002134 009F                      25492+         DC    X'009F'  .          CHANNEL AND UNIT                     28800028
002136 FF                        25493+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
002137 00                        25494+         DC    X'00' .            PUB ERROR COUNT                      30300028
002138 B0                        25495+         DC    AL1(T3277)    .      DEVICE TYPE                       32700028
                           000F8 25496+MRD09F   EQU   X'F8' .            MODE FLAGS                           33300028
002139 01                        25497+         DC    X'01' .            MODE BYTE                            38100028
00213A 00                        25498+         DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00213B F8                        25499+         DC    AL1(MRD09F+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00039 25500+P09F     EQU   TOTDVC-93   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25501+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25502+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25504+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00213C                     01F66 25505+         ORG   FOCL+1    .          POINT TO FOCL ENTRY                  24900028
001F66 3A                        25506+         DC    AL1(TOTDVC-92)   .   INDEX TO PUB TABLE                 25200028
001F67                     112E4 25507+         ORG   REGSAV+BUCKLNG*1    . POINT TO CHANNEL BUCKET            25800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0112E4 0000213C                  25508+         DC    A(PUBEND-PUBLNG*92)   ADDRESS OF FIRST PUB ON CHANNEL    26100028
0112E8                    0213C  25509+         ORG   PUBEND-PUBLNG*92   . POINT TO PUB ENTRY FOR DEVICE       26700028
00213C 0130                      25510+         DC    X'0130'  .          CHANNEL AND UNIT                      28800028
00213E FF                        25511+         DC    X'FF' .           CHANNEL QUEU POINTER                   29100028
00213F 00                        25512+         DC    X'00' .           PUB ERROR COUNT                        30300028
002140 62                        25513+         DC    AL1(T2314)    .     DEVICE TYPE                        32700028
                          000F8  25514+MRD130   EQU   X'F8' .           MODE FLAGS                             33300028
002141 00                        25515+         DC    X'00' .           MODE BYTE                              35400028
002142 02                        25516+         DC    AL1(M2314+64*0)      . CHANNEL SCHEDULER FLAGS           44100028
002143 F8                        25517+         DC    AL1(MRD130+4*0)            JOB CONTROL FLAGS @DL29Y00 44400029
                          0003A  25518+P130     EQU   TOTDVC-92   .      TO BE USED BY ASSIGN MACRO            44700028
                                 25519+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25520+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25522+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1          @DY11857 07520034
002144 0131                      25523+         DC    X'0131'  .          CHANNEL AND UNIT                      28800028
002146 FF                        25524+         DC    X'FF' .           CHANNEL QUEU POINTER                   29100028
002147 00                        25525+         DC    X'00' .           PUB ERROR COUNT                        30300028
002148 62                        25526+         DC    AL1(T2314)    .     DEVICE TYPE                        32700028
                          000F8  25527+MRD131   EQU   X'F8' .           MODE FLAGS                             33300028
002149 00                        25528+         DC    X'00' .           MODE BYTE                              35400028
00214A 02                        25529+         DC    AL1(M2314+64*0)      . CHANNEL SCHEDULER FLAGS           44100028
00214B F8                        25530+         DC    AL1(MRD131+4*0)            JOB CONTROL FLAGS @DL29Y00 44400029
                          0003B  25531+P131     EQU   TOTDVC-91   .      TO BE USED BY ASSIGN MACRO            44700028
                                 25532+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25533+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25535+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1          @DY11857 07520034
00214C 0132                      25536+         DC    X'0132'  .          CHANNEL AND UNIT                      28800028
00214E FF                        25537+         DC    X'FF' .           CHANNEL QUEU POINTER                   29100028
00214F 00                        25538+         DC    X'00' .           PUB ERROR COUNT                        30300028
002150 62                        25539+         DC    AL1(T2314)    .     DEVICE TYPE                        32700028
                          000F8  25540+MRD132   EQU   X'F8' .           MODE FLAGS                             33300028
002151 00                        25541+         DC    X'00' .           MODE BYTE                              35400028
002152 02                        25542+         DC    AL1(M2314+64*0)      . CHANNEL SCHEDULER FLAGS           44100028
002153 F8                        25543+         DC    AL1(MRD132+4*0)            JOB CONTROL FLAGS @DL29Y00 44400029
                          0003C  25544+P132     EQU   TOTDVC-90   .      TO BE USED BY ASSIGN MACRO            44700028
                                 25545+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25546+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25548+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1          @DY11857 07520034
002154 0133                      25549+         DC    X'0133'  .          CHANNEL AND UNIT                      28800028
002156 FF                        25550+         DC    X'FF' .           CHANNEL QUEU POINTER                   29100028
002157 00                        25551+         DC    X'00' .           PUB ERROR COUNT                        30300028
002158 62                        25552+         DC    AL1(T2314)    .     DEVICE TYPE                        32700028
                          000F8  25553+MRD133   EQU   X'F8' .           MODE FLAGS                             33300028
002159 00                        25554+         DC    X'00' .           MODE BYTE                              35400028
00215A 02                        25555+         DC    AL1(M2314+64*0)      . CHANNEL SCHEDULER FLAGS           44100028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00215B F8                         25556+         DC    AL1(MRD133+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                            0003D 25557+P133     EQU   TOTDVC-89   .       TO BE USED BY ASSIGN MACRO           44700028
                                  25558+*                    IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25559+*                    ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028



                                  25561+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                 @DY11857 07520034
00215C 0134                       25562+         DC    X'0134'  .          CHANNEL AND UNIT                     28800028
00215E FF                         25563+         DC    X'FF' .            CHANNEL QUEUE POINTER                29100028
00215F 00                         25564+         DC    X'00' .            PUB ERROR COUNT                      30300028
002160 62                         25565+         DC    AL1(T2314)    .      DEVICE TYPE                         32700028
                            000F8 25566+MRD134   EQU   X'F8' .            MODE FLAGS                           33300028
002161 00                         25567+         DC    X'00' .            MODE BYTE                            35400028
002162 02                         25568+         DC    AL1(M2314+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002163 F8                         25569+         DC    AL1(MRD134+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                            0003E 25570+P134     EQU   TOTDVC-88   .       TO BE USED BY ASSIGN MACRO           44700028
                                  25571+*                    IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25572+*                    ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028



                                  25574+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                 @DY11857 07520034
002164 0135                       25575+         DC    X'0135'  .          CHANNEL AND UNIT                     28800028
002166 FF                         25576+         DC    X'FF' .            CHANNEL QUEUE POINTER                29100028
002167 00                         25577+         DC    X'00' .            PUB ERROR COUNT                      30300028
002168 62                         25578+         DC    AL1(T2314)    .      DEVICE TYPE                         32700028
                            000F8 25579+MRD135   EQU   X'F8' .            MODE FLAGS                           33300028
002169 00                         25580+         DC    X'00' .            MODE BYTE                            35400028
00216A 02                         25581+         DC    AL1(M2314+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00216B F8                         25582+         DC    AL1(MRD135+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                            0003F 25583+P135     EQU   TOTDVC-87   .       TO BE USED BY ASSIGN MACRO           44700028
                                  25584+*                    IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25585+*                    ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028



                                  25587+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                 @DY11857 07520034
00216C 0136                       25588+         DC    X'0136'  .          CHANNEL AND UNIT                     28800028
00216E FF                         25589+         DC    X'FF' .            CHANNEL QUEUE POINTER                29100028
00216F 00                         25590+         DC    X'00' .            PUB ERROR COUNT                      30300028
002170 62                         25591+         DC    AL1(T2314)    .      DEVICE TYPE                         32700028
                            000F8 25592+MRD136   EQU   X'F8' .            MODE FLAGS                           33300028
002171 00                         25593+         DC    X'00' .            MODE BYTE                            35400028
002172 02                         25594+         DC    AL1(M2314+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002173 F8                         25595+         DC    AL1(MRD136+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                            00040 25596+P136     EQU   TOTDVC-86   .       TO BE USED BY ASSIGN MACRO           44700028
                                  25597+*                    IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25598+*                    ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028



                                  25600+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                 @DY11857 07520034
002174 0160                       25601+         DC    X'0160'  .          CHANNEL AND UNIT                     28800028
002176 FF                         25602+         DC    X'FF' .            CHANNEL QUEUE POINTER                29100028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002177 00                        25603+         DC    X'00' .            PUB ERROR COUNT                          30300028
002178 63                        25604+         DC    AL1(T3330)    .      DEVICE TYPE                            32700028
                        000F8    25605+MRD160   EQU   X'F8' .            MODE FLAGS                               33300028
002179 00                        25606+         DC    X'00' .            MODE BYTE                                35400028
00217A 02                        25607+         DC    AL1(M3330+64*0)       . CHANNEL SCHEDULER FLAGS             44100028
00217B FC                        25608+         DC    AL1(MRD160+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                        00041    25609+P160     EQU   TOTDVC-85   .       TO BE USED BY ASSIGN MACRO               44700028
                                 25610+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25611+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25613+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1             @DY11857 07520034
00217C 0161                      25614+         DC    X'0161'  .          CHANNEL AND UNIT                       28800028
00217E FF                        25615+         DC    X'FF' .            CHANNEL QUEU POINTER                     29100028
00217F 00                        25616+         DC    X'00' .            PUB ERROR COUNT                          30300028
002180 63                        25617+         DC    AL1(T3330)    .      DEVICE TYPE                            32700028
                        000F8    25618+MRD161   EQU   X'F8' .            MODE FLAGS                               33300028
002181 00                        25619+         DC    X'00' .            MODE BYTE                                35400028
002182 02                        25620+         DC    AL1(M3330+64*0)       . CHANNEL SCHEDULER FLAGS             44100028
002183 FC                        25621+         DC    AL1(MRD161+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                        00042    25622+P161     EQU   TOTDVC-84   .       TO BE USED BY ASSIGN MACRO               44700028
                                 25623+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25624+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25626+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1             @DY11857 07520034
002184 0162                      25627+         DC    X'0162'  .          CHANNEL AND UNIT                       28800028
002186 FF                        25628+         DC    X'FF' .            CHANNEL QUEU POINTER                     29100028
002187 00                        25629+         DC    X'00' .            PUB ERROR COUNT                          30300028
002188 63                        25630+         DC    AL1(T3330)    .      DEVICE TYPE                            32700028
                        000F8    25631+MRD162   EQU   X'F8' .            MODE FLAGS                               33300028
002189 00                        25632+         DC    X'00' .            MODE BYTE                                35400028
00218A 02                        25633+         DC    AL1(M3330+64*0)       . CHANNEL SCHEDULER FLAGS             44100028
00218B FC                        25634+         DC    AL1(MRD162+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                        00043    25635+P162     EQU   TOTDVC-83   .       TO BE USED BY ASSIGN MACRO               44700028
                                 25636+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25637+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25639+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1             @DY11857 07520034
00218C 0163                      25640+         DC    X'0163'  .          CHANNEL AND UNIT                       28800028
00218E FF                        25641+         DC    X'FF' .            CHANNEL QUEU POINTER                     29100028
00218F 00                        25642+         DC    X'00' .            PUB ERROR COUNT                          30300028
002190 63                        25643+         DC    AL1(T3330)    .      DEVICE TYPE                            32700028
                        000F8    25644+MRD163   EQU   X'F8' .            MODE FLAGS                               33300028
002191 00                        25645+         DC    X'00' .            MODE BYTE                                35400028
002192 02                        25646+         DC    AL1(M3330+64*0)       . CHANNEL SCHEDULER FLAGS             44100028
002193 FC                        25647+         DC    AL1(MRD163+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                        00044    25648+P163     EQU   TOTDVC-82   .       TO BE USED BY ASSIGN MACRO               44700028
                                 25649+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25650+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  25652+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002194 0164                       25653+         DC    X'0164'  .          CHANNEL AND UNIT                      28800028
002196 FF                         25654+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
002197 00                         25655+         DC    X'00' .           PUB ERROR COUNT                       30300028
002198 63                         25656+         DC    AL1(T3330)    .     DEVICE TYPE                         32700028
                           000F8  25657+MRD164   EQU   X'F8' .           MODE FLAGS                            33300028
002199 00                         25658+         DC    X'00' .           MODE BYTE                             35400028
00219A 02                         25659+         DC    AL1(M3330+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
00219B FC                         25660+         DC    AL1(MRD164+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00045  25661+P164     EQU   TOTDVC-81   .      TO BE USED BY ASSIGN MACRO          44700028
                                  25662+*               IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25663+*               ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25665+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00219C 0165                       25666+         DC    X'0165'  .          CHANNEL AND UNIT                      28800028
00219E FF                         25667+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
00219F 00                         25668+         DC    X'00' .           PUB ERROR COUNT                       30300028
0021A0 63                         25669+         DC    AL1(T3330)    .     DEVICE TYPE                         32700028
                           000F8  25670+MRD165   EQU   X'F8' .           MODE FLAGS                            33300028
0021A1 00                         25671+         DC    X'00' .           MODE BYTE                             35400028
0021A2 02                         25672+         DC    AL1(M3330+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
0021A3 FC                         25673+         DC    AL1(MRD165+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00046  25674+P165     EQU   TOTDVC-80   .      TO BE USED BY ASSIGN MACRO          44700028
                                  25675+*               IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25676+*               ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25678+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0021A4 0166                       25679+         DC    X'0166'  .          CHANNEL AND UNIT                      28800028
0021A6 FF                         25680+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
0021A7 00                         25681+         DC    X'00' .           PUB ERROR COUNT                       30300028
0021A8 63                         25682+         DC    AL1(T3330)    .     DEVICE TYPE                         32700028
                           000F8  25683+MRD166   EQU   X'F8' .           MODE FLAGS                            33300028
0021A9 00                         25684+         DC    X'00' .           MODE BYTE                             35400028
0021AA 02                         25685+         DC    AL1(M3330+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
0021AB FC                         25686+         DC    AL1(MRD166+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00047  25687+P166     EQU   TOTDVC-79   .      TO BE USED BY ASSIGN MACRO          44700028
                                  25688+*               IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25689+*               ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25691+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0021AC 0167                       25692+         DC    X'0167'  .          CHANNEL AND UNIT                      28800028
0021AE FF                         25693+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
0021AF 00                         25694+         DC    X'00' .           PUB ERROR COUNT                       30300028
0021B0 63                         25695+         DC    AL1(T3330)    .     DEVICE TYPE                         32700028
                           000F8  25696+MRD167   EQU   X'F8' .           MODE FLAGS                            33300028
0021B1 00                         25697+         DC    X'00' .           MODE BYTE                             35400028
0021B2 02                         25698+         DC    AL1(M3330+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
0021B3 FC                         25699+         DC    AL1(MRD167+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00048 25700+P167     EQU   TOTDVC-78   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25701+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25702+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25704+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0021B4                     01F67 25705+          ORG   FOCL+2    .           POINT TO FOCL ENTRY                  24900028
001F67 49                        25706+          DC    AL1(TOTDVC-77)   .   INDEX TO PUB TABLE                  25200028
001F68                     112FC 25707+          ORG   REGSAV+BUCKLNG*2    . POINT TO CHANNEL BUCKET            25800028
0112FC 000021B4                  25708+          DC    A(PUBEND-PUBLNG*77)   ADDRESS OF FIRST PUB ON CHANNEL   26100028
011300                     021B4 25709+          ORG   PUBEND-PUBLNG*77   . POINT TO PUB ENTRY FOR DEVICE      26700028
0021B4 0280                      25710+          DC    X'0280'  .          CHANNEL AND UNIT                     28800028
0021B6 FF                        25711+          DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
0021B7 00                        25712+          DC    X'00' .            PUB ERROR COUNT                      30300028
0021B8 52                        25713+          DC    AL1(T3420T9)  .      DEVICE TYPE                        32700028
                           000C0 25714+MRD280   EQU   X'C0'/8*8 .         ROUNDED OFF MODE                     43200028
0021B9 C3                        25715+          DC    AL1(3+MRD280)  .   MODE BYTE                           43500028
0021BA 02                        25716+          DC    AL1(M3420T9+64*0)     . CHANNEL SCHEDULER FLAGS        44100028
0021BB C0                        25717+          DC    AL1(MRD280+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                           00049 25718+P280     EQU   TOTDVC-77   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25719+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25720+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25722+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0021BC 0281                      25723+          DC    X'0281'  .          CHANNEL AND UNIT                     28800028
0021BE FF                        25724+          DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
0021BF 00                        25725+          DC    X'00' .            PUB ERROR COUNT                      30300028
0021C0 52                        25726+          DC    AL1(T3420T9)  .      DEVICE TYPE                        32700028
                           000C0 25727+MRD281   EQU   X'C0'/8*8 .         ROUNDED OFF MODE                     43200028
0021C1 C3                        25728+          DC    AL1(3+MRD281)  .   MODE BYTE                           43500028
0021C2 02                        25729+          DC    AL1(M3420T9+64*0)     . CHANNEL SCHEDULER FLAGS        44100028
0021C3 C0                        25730+          DC    AL1(MRD281+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                           0004A 25731+P281     EQU   TOTDVC-76   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25732+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25733+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25735+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0021C4 0282                      25736+          DC    X'0282'  .          CHANNEL AND UNIT                     28800028
0021C6 FF                        25737+          DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
0021C7 00                        25738+          DC    X'00' .            PUB ERROR COUNT                      30300028
0021C8 52                        25739+          DC    AL1(T3420T9)  .      DEVICE TYPE                        32700028
                           000C0 25740+MRD282   EQU   X'C0'/8*8 .         ROUNDED OFF MODE                     43200028
0021C9 C3                        25741+          DC    AL1(3+MRD282)  .   MODE BYTE                           43500028
0021CA 02                        25742+          DC    AL1(M3420T9+64*0)     . CHANNEL SCHEDULER FLAGS        44100028
0021CB C0                        25743+          DC    AL1(MRD282+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                           0004B 25744+P282     EQU   TOTDVC-75   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25745+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25746+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  25748+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0021CC 0283                       25749+         DC    X'0283'  .          CHANNEL AND UNIT                      28800028
0021CE FF                         25750+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
0021CF 00                         25751+         DC    X'00' .            PUB ERROR COUNT                       30300028
0021D0 52                         25752+         DC    AL1(T3420T9)  .      DEVICE TYPE                         32700028
                           000C0  25753+MRD283   EQU   X'C0'/8*8 .         ROUNDED OFF MODE                      43200028
0021D1 C3                         25754+         DC    AL1(3+MRD283)  .   MODE BYTE                           43500028
0021D2 02                         25755+         DC    AL1(M3420T9+64*0)     . CHANNEL SCHEDULER FLAGS       44100028
0021D3 C0                         25756+         DC    AL1(MRD283+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0004C  25757+P283     EQU   TOTDVC-74   .       TO BE USED BY ASSIGN MACRO          44700028
                                  25758+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25759+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25761+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0021D4 0284                       25762+         DC    X'0284'  .          CHANNEL AND UNIT                      28800028
0021D6 FF                         25763+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
0021D7 00                         25764+         DC    X'00' .            PUB ERROR COUNT                       30300028
0021D8 52                         25765+         DC    AL1(T3420T9)  .      DEVICE TYPE                         32700028
                           000C0  25766+MRD284   EQU   X'C0'/8*8 .         ROUNDED OFF MODE                      43200028
0021D9 C3                         25767+         DC    AL1(3+MRD284)  .   MODE BYTE                           43500028
0021DA 02                         25768+         DC    AL1(M3420T9+64*0)     . CHANNEL SCHEDULER FLAGS       44100028
0021DB C0                         25769+         DC    AL1(MRD284+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0004D  25770+P284     EQU   TOTDVC-73   .       TO BE USED BY ASSIGN MACRO          44700028
                                  25771+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25772+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25774+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0021DC 0285                       25775+         DC    X'0285'  .          CHANNEL AND UNIT                      28800028
0021DE FF                         25776+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
0021DF 00                         25777+         DC    X'00' .            PUB ERROR COUNT                       30300028
0021E0 52                         25778+         DC    AL1(T3420T9)  .      DEVICE TYPE                         32700028
                           000C0  25779+MRD285   EQU   X'C0'/8*8 .         ROUNDED OFF MODE                      43200028
0021E1 C3                         25780+         DC    AL1(3+MRD285)  .   MODE BYTE                           43500028
0021E2 02                         25781+         DC    AL1(M3420T9+64*0)     . CHANNEL SCHEDULER FLAGS       44100028
0021E3 C0                         25782+         DC    AL1(MRD285+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0004E  25783+P285     EQU   TOTDVC-72   .       TO BE USED BY ASSIGN MACRO          44700028
                                  25784+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25785+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25787+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0021E4 0286                       25788+         DC    X'0286'  .          CHANNEL AND UNIT                      28800028
0021E6 FF                         25789+         DC    X'FF' .            CHANNEL QUEU POINTER                  29100028
0021E7 00                         25790+         DC    X'00' .            PUB ERROR COUNT                       30300028
0021E8 52                         25791+         DC    AL1(T3420T9)  .      DEVICE TYPE                         32700028
                           000C0  25792+MRD286   EQU   X'C0'/8*8 .         ROUNDED OFF MODE                      43200028
0021E9 C3                         25793+         DC    AL1(3+MRD286)  .   MODE BYTE                           43500028
0021EA 02                         25794+         DC    AL1(M3420T9+64*0)     . CHANNEL SCHEDULER FLAGS       44100028
0021EB C0                         25795+         DC    AL1(MRD286+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0004F 25796+P286     EQU   TOTDVC-71   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25797+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25798+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25800+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0021EC 0287                      25801+          DC    X'0287'  .          CHANNEL AND UNIT                    28800028
0021EE FF                        25802+          DC    X'FF' .            CHANNEL QUEUE POINTER               29100028
0021EF 00                        25803+          DC    X'00' .            PUB ERROR COUNT                     30300028
0021F0 52                        25804+          DC    AL1(T3420T9)  .      DEVICE TYPE                       32700028
                           000C0 25805+MRD287    EQU   X'C0'/8*8 .        ROUNDED OFF MODE                    43200028
0021F1 C3                        25806+          DC    AL1(3+MRD287)  .   MODE BYTE                          43500028
0021F2 02                        25807+          DC    AL1(M3420T9+64*0)     . CHANNEL SCHEDULER FLAGS       44100028
0021F3 C0                        25808+          DC    AL1(MRD287+4*0)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00050 25809+P287      EQU   TOTDVC-70   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25810+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25811+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25813+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0021F4                     01F68 25814+          ORG   FOCL+3    .          POINT TO FOCL ENTRY                 24900028
001F68 51                        25815+          DC    AL1(TOTDVC-69)   .   INDEX TO PUB TABLE                 25200028
001F69                     11314 25816+          ORG   REGSAV+BUCKLNG*3    . POINT TO CHANNEL BUCKET           25800028
011314 000021F4                  25817+          DC    A(PUBEND-PUBLNG*69)   ADDRESS OF FIRST PUB ON CHANNEL   26100028
011318                     021F4 25818+          ORG   PUBEND-PUBLNG*69   . POINT TO PUB ENTRY FOR DEVICE     26700028
0021F4 0350                      25819+          DC    X'0350'  .          CHANNEL AND UNIT                    28800028
0021F6 FF                        25820+          DC    X'FF' .            CHANNEL QUEUE POINTER               29100028
0021F7 00                        25821+          DC    X'00' .            PUB ERROR COUNT                     30300028
0021F8 63                        25822+          DC    AL1(T3330)    .      DEVICE TYPE                       32700028
                           000F8 25823+MRD350    EQU   X'F8' .            MODE FLAGS                          33300028
0021F9 00                        25824+          DC    X'00' .            MODE BYTE                           35400028
0021FA 02                        25825+          DC    AL1(M3330+64*0)       . CHANNEL SCHEDULER FLAGS       44100028
0021FB FC                        25826+          DC    AL1(MRD350+4*1)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00051 25827+P350      EQU   TOTDVC-69   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25828+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25829+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25831+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0021FC 0351                      25832+          DC    X'0351'  .          CHANNEL AND UNIT                    28800028
0021FE FF                        25833+          DC    X'FF' .            CHANNEL QUEUE POINTER               29100028
0021FF 00                        25834+          DC    X'00' .            PUB ERROR COUNT                     30300028
002200 63                        25835+          DC    AL1(T3330)    .      DEVICE TYPE                       32700028
                           000F8 25836+MRD351    EQU   X'F8' .            MODE FLAGS                          33300028
002201 00                        25837+          DC    X'00' .            MODE BYTE                           35400028
002202 02                        25838+          DC    AL1(M3330+64*0)       . CHANNEL SCHEDULER FLAGS       44100028
002203 FC                        25839+          DC    AL1(MRD351+4*1)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00052 25840+P351      EQU   TOTDVC-68   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25841+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25842+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  25844+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002204 0352                       25845+         DC    X'0352'  .          CHANNEL AND UNIT                      28800028
002206 FF                         25846+         DC    X'FF' .           CHANNEL QUEU POINTER                    29100028
002207 00                         25847+         DC    X'00' .           PUB ERROR COUNT                         30300028
002208 63                         25848+         DC    AL1(T3330)    .     DEVICE TYPE                         32700028
                           000F8  25849+MRD352   EQU   X'F8' .           MODE FLAGS                              33300028
002209 00                         25850+         DC    X'00' .           MODE BYTE                               35400028
00220A 02                         25851+         DC    AL1(M3330+64*0)      . CHANNEL SCHEDULER FLAGS        44100028
00220B FC                         25852+         DC    AL1(MRD352+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00053  25853+P352     EQU   TOTDVC-67   .      TO BE USED BY ASSIGN MACRO          44700028
                                  25854+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25855+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25857+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00220C 0353                       25858+         DC    X'0353'  .          CHANNEL AND UNIT                      28800028
00220E FF                         25859+         DC    X'FF' .           CHANNEL QUEU POINTER                    29100028
00220F 00                         25860+         DC    X'00' .           PUB ERROR COUNT                         30300028
002210 63                         25861+         DC    AL1(T3330)    .     DEVICE TYPE                         32700028
                           000F8  25862+MRD353   EQU   X'F8' .           MODE FLAGS                              33300028
002211 00                         25863+         DC    X'00' .           MODE BYTE                               35400028
002212 02                         25864+         DC    AL1(M3330+64*0)      . CHANNEL SCHEDULER FLAGS        44100028
002213 FC                         25865+         DC    AL1(MRD353+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00054  25866+P353     EQU   TOTDVC-66   .      TO BE USED BY ASSIGN MACRO          44700028
                                  25867+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25868+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25870+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002214 0354                       25871+         DC    X'0354'  .          CHANNEL AND UNIT                      28800028
002216 FF                         25872+         DC    X'FF' .           CHANNEL QUEU POINTER                    29100028
002217 00                         25873+         DC    X'00' .           PUB ERROR COUNT                         30300028
002218 63                         25874+         DC    AL1(T3330)    .     DEVICE TYPE                         32700028
                           000F8  25875+MRD354   EQU   X'F8' .           MODE FLAGS                              33300028
002219 00                         25876+         DC    X'00' .           MODE BYTE                               35400028
00221A 02                         25877+         DC    AL1(M3330+64*0)      . CHANNEL SCHEDULER FLAGS        44100028
00221B FC                         25878+         DC    AL1(MRD354+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00055  25879+P354     EQU   TOTDVC-65   .      TO BE USED BY ASSIGN MACRO          44700028
                                  25880+*              IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25881+*              ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25883+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00221C 0355                       25884+         DC    X'0355'  .          CHANNEL AND UNIT                      28800028
00221E FF                         25885+         DC    X'FF' .           CHANNEL QUEU POINTER                    29100028
00221F 00                         25886+         DC    X'00' .           PUB ERROR COUNT                         30300028
002220 63                         25887+         DC    AL1(T3330)    .     DEVICE TYPE                         32700028
                           000F8  25888+MRD355   EQU   X'F8' .           MODE FLAGS                              33300028
002221 00                         25889+         DC    X'00' .           MODE BYTE                               35400028
002222 02                         25890+         DC    AL1(M3330+64*0)      . CHANNEL SCHEDULER FLAGS        44100028
002223 FC                         25891+         DC    AL1(MRD355+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00056 25892+P355     EQU   TOTDVC-64   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25893+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25894+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25896+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002224 0356                      25897+         DC    X'0356'  .          CHANNEL AND UNIT                    28800028
002226 FF                        25898+         DC    X'FF' .            CHANNEL QUEU POINTER                29100028
002227 00                        25899+         DC    X'00' .            PUB ERROR COUNT                     30300028
002228 63                        25900+         DC    AL1(T3330)    .      DEVICE TYPE                       32700028
                           000F8 25901+MRD356   EQU   X'F8' .            MODE FLAGS                          33300028
002229 00                        25902+         DC    X'00' .            MODE BYTE                           35400028
00222A 02                        25903+         DC    AL1(M3330+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
00222B FC                        25904+         DC    AL1(MRD356+4*1)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00057 25905+P356     EQU   TOTDVC-63   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25906+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25907+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25909+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00222C 0357                      25910+         DC    X'0357'  .          CHANNEL AND UNIT                    28800028
00222E FF                        25911+         DC    X'FF' .            CHANNEL QUEU POINTER                29100028
00222F 00                        25912+         DC    X'00' .            PUB ERROR COUNT                     30300028
002230 63                        25913+         DC    AL1(T3330)    .      DEVICE TYPE                       32700028
                           000F8 25914+MRD357   EQU   X'F8' .            MODE FLAGS                          33300028
002231 00                        25915+         DC    X'00' .            MODE BYTE                           35400028
002232 02                        25916+         DC    AL1(M3330+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
002233 FC                        25917+         DC    AL1(MRD357+4*1)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00058 25918+P357     EQU   TOTDVC-62   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25919+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25920+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25922+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002234 0360                      25923+         DC    X'0360'  .          CHANNEL AND UNIT                    28800028
002236 FF                        25924+         DC    X'FF' .            CHANNEL QUEU POINTER                29100028
002237 00                        25925+         DC    X'00' .            PUB ERROR COUNT                     30300028
002238 67                        25926+         DC    AL1(T3350)    .      DEVICE TYPE                       32700028
                           000F8 25927+MRD360   EQU   X'F8' .            MODE FLAGS                          33300028
002239 00                        25928+         DC    X'00' .            MODE BYTE                           35400028
00223A 02                        25929+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS        44100028
00223B FC                        25930+         DC    AL1(MRD360+4*1)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00059 25931+P360     EQU   TOTDVC-61   .       TO BE USED BY ASSIGN MACRO           44700028
                                 25932+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 25933+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 25935+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00223C 0361                      25936+         DC    X'0361'  .          CHANNEL AND UNIT                    28800028
00223E FF                        25937+         DC    X'FF' .            CHANNEL QUEU POINTER                29100028
00223F 00                        25938+         DC    X'00' .            PUB ERROR COUNT                     30300028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002240 67                         25939+         DC    AL1(T3350)    .      DEVICE TYPE                          32700028
                            000F8 25940+MRD361   EQU   X'F8' .            MODE FLAGS                           33300028
002241 00                         25941+         DC    X'00' .            MODE BYTE                            35400028
002242 02                         25942+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002243 FC                         25943+         DC    AL1(MRD361+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                            0005A 25944+P361     EQU   TOTDVC-60   .       TO BE USED BY ASSIGN MACRO           44700028
                                  25945+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25946+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25948+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
002244 0362                       25949+         DC    X'0362'  .          CHANNEL AND UNIT                     28800028
002246 FF                         25950+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
002247 00                         25951+         DC    X'00' .            PUB ERROR COUNT                      30300028
002248 67                         25952+         DC    AL1(T3350)    .      DEVICE TYPE                          32700028
                            000F8 25953+MRD362   EQU   X'F8' .            MODE FLAGS                           33300028
002249 00                         25954+         DC    X'00' .            MODE BYTE                            35400028
00224A 02                         25955+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00224B FC                         25956+         DC    AL1(MRD362+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                            0005B 25957+P362     EQU   TOTDVC-59   .       TO BE USED BY ASSIGN MACRO           44700028
                                  25958+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25959+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25961+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
00224C 0363                       25962+         DC    X'0363'  .          CHANNEL AND UNIT                     28800028
00224E FF                         25963+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
00224F 00                         25964+         DC    X'00' .            PUB ERROR COUNT                      30300028
002250 67                         25965+         DC    AL1(T3350)    .      DEVICE TYPE                          32700028
                            000F8 25966+MRD363   EQU   X'F8' .            MODE FLAGS                           33300028
002251 00                         25967+         DC    X'00' .            MODE BYTE                            35400028
002252 02                         25968+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002253 FC                         25969+         DC    AL1(MRD363+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                            0005C 25970+P363     EQU   TOTDVC-58   .       TO BE USED BY ASSIGN MACRO           44700028
                                  25971+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25972+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  25974+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1              @DY11857 07520034
002254 0364                       25975+         DC    X'0364'  .          CHANNEL AND UNIT                     28800028
002256 FF                         25976+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
002257 00                         25977+         DC    X'00' .            PUB ERROR COUNT                      30300028
002258 67                         25978+         DC    AL1(T3350)    .      DEVICE TYPE                          32700028
                            000F8 25979+MRD364   EQU   X'F8' .            MODE FLAGS                           33300028
002259 00                         25980+         DC    X'00' .            MODE BYTE                            35400028
00225A 02                         25981+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00225B FC                         25982+         DC    AL1(MRD364+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                            0005D 25983+P364     EQU   TOTDVC-57   .       TO BE USED BY ASSIGN MACRO           44700028
                                  25984+*                 IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25985+*                 ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  25987+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00225C 0365                       25988+         DC    X'0365'  .          CHANNEL AND UNIT                      28800028
00225E FF                         25989+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
00225F 00                         25990+         DC    X'00' .           PUB ERROR COUNT                       30300028
002260 67                         25991+         DC    AL1(T3350)    .     DEVICE TYPE                         32700028
                           000F8  25992+MRD365   EQU   X'F8' .           MODE FLAGS                            33300028
002261 00                         25993+         DC    X'00' .           MODE BYTE                             35400028
002262 02                         25994+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002263 FC                         25995+         DC    AL1(MRD365+4*1)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0005E  25996+P365     EQU   TOTDVC-56   .       TO BE USED BY ASSIGN MACRO          44700028
                                  25997+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  25998+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  26000+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002264 0366                       26001+         DC    X'0366'  .          CHANNEL AND UNIT                      28800028
002266 FF                         26002+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
002267 00                         26003+         DC    X'00' .           PUB ERROR COUNT                       30300028
002268 67                         26004+         DC    AL1(T3350)    .     DEVICE TYPE                         32700028
                           000F8  26005+MRD366   EQU   X'F8' .           MODE FLAGS                            33300028
002269 00                         26006+         DC    X'00' .           MODE BYTE                             35400028
00226A 02                         26007+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00226B FC                         26008+         DC    AL1(MRD366+4*1)             JOB CONTROL FLAGS @DL29Y00 44400029
                           0005F  26009+P366     EQU   TOTDVC-55   .       TO BE USED BY ASSIGN MACRO          44700028
                                  26010+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  26011+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  26013+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00226C 0367                       26014+         DC    X'0367'  .          CHANNEL AND UNIT                      28800028
00226E FF                         26015+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
00226F 00                         26016+         DC    X'00' .           PUB ERROR COUNT                       30300028
002270 67                         26017+         DC    AL1(T3350)    .     DEVICE TYPE                         32700028
                           000F8  26018+MRD367   EQU   X'F8' .           MODE FLAGS                            33300028
002271 00                         26019+         DC    X'00' .           MODE BYTE                             35400028
002272 02                         26020+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002273 FC                         26021+         DC    AL1(MRD367+4*1)             JOB CONTROL FLAGS @DL29Y00 44400029
                           00060  26022+P367     EQU   TOTDVC-54   .       TO BE USED BY ASSIGN MACRO          44700028
                                  26023+*                IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  26024+*                ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  26026+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002274                     01F69  26027+         ORG   FOCL+4    .          POINT TO FOCL ENTRY                   24900028
001F69 61                         26028+         DC    AL1(TOTDVC-53)   .   INDEX TO PUB TABLE                  25200028
001F6A                     1132C  26029+         ORG   REGSAV+BUCKLNG*4    . POINT TO CHANNEL BUCKET             25800028
01132C 00002274                   26030+         DC    A(PUBEND-PUBLNG*53)   ADDRESS OF FIRST PUB ON CHANNEL   26100028
011330                     02274  26031+         ORG   PUBEND-PUBLNG*53   . POINT TO PUB ENTRY FOR DEVICE      26700028
002274 0440                       26032+         DC    X'0440'  .          CHANNEL AND UNIT                      28800028
002276 FF                         26033+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
002277 00                         26034+         DC    X'00' .           PUB ERROR COUNT                       30300028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

002278 67                         26035+         DC    AL1(T3350)    .      DEVICE TYPE                          32700028
                            000F8 26036+MRD440   EQU   X'F8' .            MODE FLAGS                           33300028
002279 00                         26037+         DC    X'00' .            MODE BYTE                            35400028
00227A 02                         26038+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00227B FC                         26039+         DC    AL1(MRD440+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                            00061 26040+P440     EQU   TOTDVC-53   .       TO BE USED BY ASSIGN MACRO           44700028
                                  26041+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  26042+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  26044+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00227C 0441                       26045+         DC    X'0441'  .          CHANNEL AND UNIT                     28800028
00227E FF                         26046+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
00227F 00                         26047+         DC    X'00' .            PUB ERROR COUNT                      30300028
002280 67                         26048+         DC    AL1(T3350)    .      DEVICE TYPE                          32700028
                            000F8 26049+MRD441   EQU   X'F8' .            MODE FLAGS                           33300028
002281 00                         26050+         DC    X'00' .            MODE BYTE                            35400028
002282 02                         26051+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002283 FC                         26052+         DC    AL1(MRD441+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                            00062 26053+P441     EQU   TOTDVC-52   .       TO BE USED BY ASSIGN MACRO           44700028
                                  26054+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  26055+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  26057+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
002284 0442                       26058+         DC    X'0442'  .          CHANNEL AND UNIT                     28800028
002286 FF                         26059+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
002287 00                         26060+         DC    X'00' .            PUB ERROR COUNT                      30300028
002288 67                         26061+         DC    AL1(T3350)    .      DEVICE TYPE                          32700028
                            000F8 26062+MRD442   EQU   X'F8' .            MODE FLAGS                           33300028
002289 00                         26063+         DC    X'00' .            MODE BYTE                            35400028
00228A 02                         26064+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
00228B FC                         26065+         DC    AL1(MRD442+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                            00063 26066+P442     EQU   TOTDVC-51   .       TO BE USED BY ASSIGN MACRO           44700028
                                  26067+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  26068+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  26070+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
00228C 0443                       26071+         DC    X'0443'  .          CHANNEL AND UNIT                     28800028
00228E FF                         26072+         DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
00228F 00                         26073+         DC    X'00' .            PUB ERROR COUNT                      30300028
002290 67                         26074+         DC    AL1(T3350)    .      DEVICE TYPE                          32700028
                            000F8 26075+MRD443   EQU   X'F8' .            MODE FLAGS                           33300028
002291 00                         26076+         DC    X'00' .            MODE BYTE                            35400028
002292 02                         26077+         DC    AL1(M3350+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
002293 FC                         26078+         DC    AL1(MRD443+4*1)              JOB CONTROL FLAGS @DL29Y00 44400029
                            00064 26079+P443     EQU   TOTDVC-50   .       TO BE USED BY ASSIGN MACRO           44700028
                                  26080+*                  IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  26081+*                  ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  26083+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
002294 0444                       26084+         DC    X'0444'  .          CHANNEL AND UNIT                      28800028
002296 FF                         26085+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
002297 00                         26086+         DC    X'00' .           PUB ERROR COUNT                       30300028
002298 67                         26087+         DC    AL1(T3350)    .     DEVICE TYPE                         32700028
                           000F8  26088+MRD444   EQU   X'F8' .           MODE FLAGS                            33300028
002299 00                         26089+         DC    X'00' .           MODE BYTE                             35400028
00229A 02                         26090+         DC    AL1(M3350+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
00229B FC                         26091+         DC    AL1(MRD444+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00065  26092+P444     EQU   TOTDVC-49   .      TO BE USED BY ASSIGN MACRO          44700028
                                  26093+*               IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  26094+*               ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  26096+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
00229C 0445                       26097+         DC    X'0445'  .          CHANNEL AND UNIT                      28800028
00229E FF                         26098+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
00229F 00                         26099+         DC    X'00' .           PUB ERROR COUNT                       30300028
0022A0 67                         26100+         DC    AL1(T3350)    .     DEVICE TYPE                         32700028
                           000F8  26101+MRD445   EQU   X'F8' .           MODE FLAGS                            33300028
0022A1 00                         26102+         DC    X'00' .           MODE BYTE                             35400028
0022A2 02                         26103+         DC    AL1(M3350+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
0022A3 FC                         26104+         DC    AL1(MRD445+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00066  26105+P445     EQU   TOTDVC-48   .      TO BE USED BY ASSIGN MACRO          44700028
                                  26106+*               IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  26107+*               ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  26109+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0022A4 0446                       26110+         DC    X'0446'  .          CHANNEL AND UNIT                      28800028
0022A6 FF                         26111+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
0022A7 00                         26112+         DC    X'00' .           PUB ERROR COUNT                       30300028
0022A8 67                         26113+         DC    AL1(T3350)    .     DEVICE TYPE                         32700028
                           000F8  26114+MRD446   EQU   X'F8' .           MODE FLAGS                            33300028
0022A9 00                         26115+         DC    X'00' .           MODE BYTE                             35400028
0022AA 02                         26116+         DC    AL1(M3350+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
0022AB FC                         26117+         DC    AL1(MRD446+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
                           00067  26118+P446     EQU   TOTDVC-47   .      TO BE USED BY ASSIGN MACRO          44700028
                                  26119+*               IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                  26120+*               ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                  26122+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1                @DY11857 07520034
0022AC 0447                       26123+         DC    X'0447'  .          CHANNEL AND UNIT                      28800028
0022AE FF                         26124+         DC    X'FF' .           CHANNEL QUEU POINTER                  29100028
0022AF 00                         26125+         DC    X'00' .           PUB ERROR COUNT                       30300028
0022B0 67                         26126+         DC    AL1(T3350)    .     DEVICE TYPE                         32700028
                           000F8  26127+MRD447   EQU   X'F8' .           MODE FLAGS                            33300028
0022B1 00                         26128+         DC    X'00' .           MODE BYTE                             35400028
0022B2 02                         26129+         DC    AL1(M3350+64*0)      . CHANNEL SCHEDULER FLAGS          44100028
0022B3 FC                         26130+         DC    AL1(MRD447+4*1)            JOB CONTROL FLAGS @DL29Y00 44400029
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00068 26131+P447     EQU   TOTDVC-46   .       TO BE USED BY ASSIGN MACRO           44700028
                                 26132+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 26133+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 26135+* SUPERVISOR - DVCGEN - 5745-SC-SUP - REL. 34.1               @DY11857 07520034
0022B4                     01F6A 26136+          ORG   FOCL+5    .           POINT TO FOCL ENTRY                  24900028
001F6A 69                        26137+          DC    AL1(TOTDVC-45)   .   INDEX TO PUB TABLE                  25200028
001F6B                     11344 26138+          ORG   REGSAV+BUCKLNG*5    . POINT TO CHANNEL BUCKET              25800028
011344 000022B4                  26139+          DC    A(PUBEND-PUBLNG*45)   ADDRESS OF FIRST PUB ON CHANNEL    26100028
011348                     022B4 26140+          ORG   PUBEND-PUBLNG*45   . POINT TO PUB ENTRY FOR DEVICE       26700028
0022B4 051F                      26141+          DC    X'051F'  .          CHANNEL AND UNIT                     28800028
0022B6 FF                        26142+          DC    X'FF' .            CHANNEL QUEU POINTER                 29100028
0022B7 00                        26143+          DC    X'00' .            PUB ERROR COUNT                      30300028
0022B8 B0                        26144+          DC    AL1(T3277)    .      DEVICE TYPE                       32700028
                           000F8 26145+MRD51F    EQU   X'F8' .            MODE FLAGS                           33300028
0022B9 00                        26146+          DC    X'00' .            MODE BYTE                            35400028
0022BA 00                        26147+          DC    AL1(M3277+64*0)       . CHANNEL SCHEDULER FLAGS         44100028
0022BB F8                        26148+          DC    AL1(MRD51F+4*0)              JOB CONTROL FLAGS @DL29Y00 44400029
                           00069 26149+P51F      EQU   TOTDVC-45   .       TO BE USED BY ASSIGN MACRO           44700028
                                 26150+*                   IF THIS STATEMENT ASSEMBLES IN ERROR....  @DM01757 44750028
                                 26151+*                   ....CHUN SPECIFICATION WAS INVALID        @DM01757 44800028


                                 26153+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1               @DY11857 00615034
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

0022BC                     01CDE 26155+         ORG   LUBTAB+LUBLNG*SYSLOG POINT TO LUB ENTRY                  33000028
001CDE 11                        26156+         DC    AL1(P01F)  .        PUB POINTER                           37000028
001CDF FF                        26157+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                 26159+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CE0                     01D4A 26160+         ORG   F4LUB+LUBLNG*SYSLOG     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001D4A 11                        26161+         DC    AL1(P01F)  .        PUB POINTER                           37000028
001D4B FF                        26162+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                 26164+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D4C                     01DCA 26165+         ORG   F3LUB+LUBLNG*SYSLOG     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001DCA 11                        26166+         DC    AL1(P01F)  .        PUB POINTER                           37000028
001DCB FF                        26167+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                 26169+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DCC                     01E2C 26170+         ORG   F2LUB+LUBLNG*SYSLOG     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001E2C 11                        26171+         DC    AL1(P01F)  .        PUB POINTER                           37000028
001E2D FF                        26172+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                 26174+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E2E                     01EBE 26175+         ORG   F1LUB+LUBLNG*SYSLOG     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001EBE 11                        26176+         DC    AL1(P01F)  .        PUB POINTER                           37000028
001EBF FF                        26177+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                 26179+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001EC0                     01CEA 26180+         ORG   LUBTAB+LUBLNG*SYSREC POINT TO LUB ENTRY                  33000028
001CEA 5A                        26181+         DC    AL1(P361)  .        PUB POINTER                           37000028
001CEB FF                        26182+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                 26184+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CEC                     01D56 26185+         ORG   F4LUB+LUBLNG*SYSREC     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001D56 5A                        26186+         DC    AL1(P361)  .        PUB POINTER                           37000028
001D57 FF                        26187+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                 26189+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D58                     01DD6 26190+         ORG   F3LUB+LUBLNG*SYSREC     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001DD6 5A                        26191+         DC    AL1(P361)  .        PUB POINTER                           37000028
001DD7 FF                        26192+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  26194+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DD8                      01E38 26195+         ORG   F2LUB+LUBLNG*SYSREC     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001E38 5A                         26196+         DC    AL1(P361)  .        PUB POINTER                          37000028
001E39 FF                         26197+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                  26199+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E3A                      01ECA 26200+         ORG   F1LUB+LUBLNG*SYSREC     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001ECA 5A                         26201+         DC    AL1(P361)  .        PUB POINTER                          37000028
001ECB FF                         26202+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                  26204+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001ECC                      01CD6 26205+         ORG   LUBTAB+LUBLNG*SYSRDR POINT TO LUB ENTRY                 33000028
001CD6 00                         26206+         DC    AL1(P00C)  .        PUB POINTER                          37000028
001CD7 FF                         26207+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                  26209+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CD8                      01D42 26210+         ORG   F4LUB+LUBLNG*SYSRDR     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001D42 00                         26211+         DC    AL1(P00C)  .        PUB POINTER                          37000028
001D43 FF                         26212+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                  26214+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D44                      01DC2 26215+         ORG   F3LUB+LUBLNG*SYSRDR     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001DC2 00                         26216+         DC    AL1(P00C)  .        PUB POINTER                          37000028
001DC3 FF                         26217+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                  26219+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DC4                      01E24 26220+         ORG   F2LUB+LUBLNG*SYSRDR     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001E24 00                         26221+         DC    AL1(P00C)  .        PUB POINTER                          37000028
001E25 FF                         26222+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                  26224+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E26                      01CDA 26225+         ORG   LUBTAB+LUBLNG*SYSPCH POINT TO LUB ENTRY                 33000028
001CDA 04                         26226+         DC    AL1(P00D)  .        PUB POINTER                          37000028
001CDB FF                         26227+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                  26229+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CDC                      01D46 26230+         ORG   F4LUB+LUBLNG*SYSPCH     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001D46 04                         26231+         DC    AL1(P00D)  .        PUB POINTER                          37000028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001D47 FF                         26232+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                  26234+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                 @DY11857 00615034
001D48                      01DC6 26235+         ORG   F3LUB+LUBLNG*SYSPCH     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001DC6 04                         26236+         DC    AL1(P00D)  .        PUB POINTER                           37000028
001DC7 FF                         26237+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                  26239+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                 @DY11857 00615034
001DC8                      01E28 26240+         ORG   F2LUB+LUBLNG*SYSPCH     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001E28 04                         26241+         DC    AL1(P00D)  .        PUB POINTER                           37000028
001E29 FF                         26242+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                  26244+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                 @DY11857 00615034
001E2A                      01D48 26245+         ORG   F4LUB+LUBLNG*SYSLST     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001D48 08                         26246+         DC    AL1(P00E)  .        PUB POINTER                           37000028
001D49 FF                         26247+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                  26249+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                 @DY11857 00615034
001D4A                      01DC8 26250+         ORG   F3LUB+LUBLNG*SYSLST     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001DC8 08                         26251+         DC    AL1(P00E)  .        PUB POINTER                           37000028
001DC9 FF                         26252+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                  26254+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                 @DY11857 00615034
001DCA                      01E2A 26255+         ORG   F2LUB+LUBLNG*SYSLST     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001E2A 08                         26256+         DC    AL1(P00E)  .        PUB POINTER                           37000028
001E2B FF                         26257+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                  26259+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                 @DY11857 00615034
001E2C                      01CD8 26260+         ORG   LUBTAB+LUBLNG*SYSIPT POINT TO LUB ENTRY                    33000028
001CD8 00                         26261+         DC    AL1(P00C)  .        PUB POINTER                           37000028
001CD9 FF                         26262+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                  26264+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                 @DY11857 00615034
001CDA                      01D44 26265+         ORG   F4LUB+LUBLNG*SYSIPT     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001D44 00                         26266+         DC    AL1(P00C)  .        PUB POINTER                           37000028
001D45 FF                         26267+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 26269+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D46                     01DC4 26270+         ORG   F3LUB+LUBLNG*SYSIPT     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001DC4 00                        26271+         DC    AL1(P00C)  .        PUB POINTER                          37000028
001DC5 FF                        26272+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                 26274+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DC6                     01E26 26275+         ORG   F2LUB+LUBLNG*SYSIPT     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001E26 00                        26276+         DC    AL1(P00C)  .        PUB POINTER                          37000028
001E27 FF                        26277+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                 26279+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E28                     01CF0 26280+         ORG   LUBTAB+LUBLNG*SYSCAT POINT TO LUB ENTRY                33000028
001CF0 59                        26281+         DC    AL1(P360)  .        PUB POINTER                          37000028
001CF1 FF                        26282+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                 26284+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CF2                     01D5C 26285+         ORG   F4LUB+LUBLNG*SYSCAT     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001D5C 59                        26286+         DC    AL1(P360)  .        PUB POINTER                          37000028
001D5D FF                        26287+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                 26289+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D5E                     01DDC 26290+         ORG   F3LUB+LUBLNG*SYSCAT     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001DDC 59                        26291+         DC    AL1(P360)  .        PUB POINTER                          37000028
001DDD FF                        26292+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                 26294+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DDE                     01E3E 26295+         ORG   F2LUB+LUBLNG*SYSCAT     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001E3E 59                        26296+         DC    AL1(P360)  .        PUB POINTER                          37000028
001E3F FF                        26297+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                 26299+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E40                     01ED0 26300+         ORG   F1LUB+LUBLNG*SYSCAT     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                      STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001ED0 59                        26301+         DC    AL1(P360)  .        PUB POINTER                          37000028
001ED1 FF                        26302+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT            37500028


                                 26304+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001ED2                     01CF2 26305+         ORG   PGRLUB+LUBLNG*000   POINT TO LUB ENTRY                   35500028
001CF2 5B                        26306+         DC    AL1(P362)  .        PUB POINTER                          37000028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001CF3 FF                          26307+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                   26309+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CF4                     01D5E   26310+         ORG   F4LUB+LUBLNG*(000+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001D5E 5B                          26311+         DC    AL1(P362)  .        PUB POINTER                           37000028
001D5F FF                          26312+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                   26314+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D60                     01DDE   26315+         ORG   F3LUB+LUBLNG*(000+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001DDE 5B                          26316+         DC    AL1(P362)  .        PUB POINTER                           37000028
001DDF FF                          26317+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                   26319+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DE0                     01E40   26320+         ORG   F2LUB+LUBLNG*(000+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001E40 5B                          26321+         DC    AL1(P362)  .        PUB POINTER                           37000028
001E41 FF                          26322+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                   26324+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E42                     01ED2   26325+         ORG   F1LUB+LUBLNG*(000+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001ED2 5B                          26326+         DC    AL1(P362)  .        PUB POINTER                           37000028
001ED3 FF                          26327+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                   26329+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001ED4                     01CF4   26330+         ORG   PGRLUB+LUBLNG*001   POINT TO LUB ENTRY                    35500028
001CF4 5B                          26331+         DC    AL1(P362)  .        PUB POINTER                           37000028
001CF5 FF                          26332+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                   26334+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CF6                     01D60   26335+         ORG   F4LUB+LUBLNG*(001+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001D60 5B                          26336+         DC    AL1(P362)  .        PUB POINTER                           37000028
001D61 FF                          26337+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                   26339+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D62                     01DE0   26340+         ORG   F3LUB+LUBLNG*(001+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001DE0 5B                          26341+         DC    AL1(P362)  .        PUB POINTER                           37000028
001DE1 FF                          26342+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028



                                   26344+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DE2                     01E42   26345+         ORG   F2LUB+LUBLNG*(001+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001E42 5B                          26346+         DC    AL1(P362)  .        PUB POINTER                           37000028
001E43 FF                          26347+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  26349+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E44                      01ED4 26350+         ORG   F1LUB+LUBLNG*(001+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001ED4 5B                         26351+         DC    AL1(P362)  .        PUB POINTER                          37000028
001ED5 FF                         26352+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT           37500028



                                  26354+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001ED6                      01CF6 26355+         ORG   PGRLUB+LUBLNG*002   POINT TO LUB ENTRY                   35500028
001CF6 5B                         26356+         DC    AL1(P362)  .        PUB POINTER                          37000028
001CF7 FF                         26357+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT           37500028



                                  26359+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CF8                      01D62 26360+         ORG   F4LUB+LUBLNG*(002+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001D62 5B                         26361+         DC    AL1(P362)  .        PUB POINTER                          37000028
001D63 FF                         26362+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT           37500028



                                  26364+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D64                      01DE2 26365+         ORG   F3LUB+LUBLNG*(002+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001DE2 5B                         26366+         DC    AL1(P362)  .        PUB POINTER                          37000028
001DE3 FF                         26367+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT           37500028



                                  26369+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DE4                      01E44 26370+         ORG   F2LUB+LUBLNG*(002+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001E44 5B                         26371+         DC    AL1(P362)  .        PUB POINTER                          37000028
001E45 FF                         26372+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT           37500028



                                  26374+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E46                      01ED6 26375+         ORG   F1LUB+LUBLNG*(002+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001ED6 5B                         26376+         DC    AL1(P362)  .        PUB POINTER                          37000028
001ED7 FF                         26377+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT           37500028



                                  26379+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001ED8                      01CF8 26380+         ORG   PGRLUB+LUBLNG*003   POINT TO LUB ENTRY                   35500028
001CF8 5B                         26381+         DC    AL1(P362)  .        PUB POINTER                          37000028
001CF9 FF                         26382+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT           37500028



                                  26384+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CFA                      01D64 26385+         ORG   F4LUB+LUBLNG*(003+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001D64 5B                         26386+         DC    AL1(P362)  .        PUB POINTER                          37000028
001D65 FF                         26387+         DC    X'FF' .           SPECIFY STANDARD ASSIGNMENT           37500028



                                  26389+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D66                      01DE4 26390+         ORG   F3LUB+LUBLNG*(003+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001DE4 5B                         26391+         DC    AL1(P362)  .        PUB POINTER                          37000028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001DE5 FF                         26392+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26394+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DE6                      01E46 26395+         ORG   F2LUB+LUBLNG*(003+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001E46 5B                         26396+         DC    AL1(P362)  .        PUB POINTER                           37000028
001E47 FF                         26397+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26399+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E48                      01ED8 26400+         ORG   F1LUB+LUBLNG*(003+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001ED8 5B                         26401+         DC    AL1(P362)  .        PUB POINTER                           37000028
001ED9 FF                         26402+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26404+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001EDA                      01CE0 26405+         ORG   LUBTAB+LUBLNG*SYSLNK POINT TO LUB ENTRY                33000028
001CE0 5B                         26406+         DC    AL1(P362)  .        PUB POINTER                           37000028
001CE1 FF                         26407+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26409+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CE2                      01D4C 26410+         ORG   F4LUB+LUBLNG*SYSLNK     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001D4C 5B                         26411+         DC    AL1(P362)  .        PUB POINTER                           37000028
001D4D FF                         26412+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26414+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D4E                      01DCC 26415+         ORG   F3LUB+LUBLNG*SYSLNK     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001DCC 5B                         26416+         DC    AL1(P362)  .        PUB POINTER                           37000028
001DCD FF                         26417+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26419+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DCE                      01E2E 26420+         ORG   F2LUB+LUBLNG*SYSLNK     . ORG TO FG SYSTEM LUB TABLE,IF *26800033
                                                       STATEMENT ASSEMBLES IN ERROR, LOG UNIT IS WRONG @D33RDEM 26850033
001E2E 5B                         26421+         DC    AL1(P362)  .        PUB POINTER                           37000028
001E2F FF                         26422+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26424+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E30                      01CFA 26425+         ORG   PGRLUB+LUBLNG*004   POINT TO LUB ENTRY                  35500028
001CFA 00                         26426+         DC    AL1(P00C)  .        PUB POINTER                           37000028
001CFB FF                         26427+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26429+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CFC                      01D66 26430+         ORG   F4LUB+LUBLNG*(004+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001D66 00                         26431+         DC    AL1(P00C)  .        PUB POINTER                           37000028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

001D67 FF                         26432+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26434+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D68                      01DE6 26435+         ORG   F3LUB+LUBLNG*(004+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001DE6 00                         26436+         DC    AL1(P00C)  .        PUB POINTER                          37000028
001DE7 FF                         26437+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26439+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DE8                      01E48 26440+         ORG   F2LUB+LUBLNG*(004+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001E48 00                         26441+         DC    AL1(P00C)  .        PUB POINTER                          37000028
001E49 FF                         26442+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26444+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E4A                      01CFC 26445+         ORG   PGRLUB+LUBLNG*005   POINT TO LUB ENTRY                   35500028
001CFC 08                         26446+         DC    AL1(P00E)  .        PUB POINTER                          37000028
001CFD FF                         26447+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26449+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001CFE                      01D68 26450+         ORG   F4LUB+LUBLNG*(005+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001D68 08                         26451+         DC    AL1(P00E)  .        PUB POINTER                          37000028
001D69 FF                         26452+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26454+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D6A                      01DE8 26455+         ORG   F3LUB+LUBLNG*(005+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001DE8 08                         26456+         DC    AL1(P00E)  .        PUB POINTER                          37000028
001DE9 FF                         26457+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26459+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DEA                      01E4A 26460+         ORG   F2LUB+LUBLNG*(005+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001E4A 08                         26461+         DC    AL1(P00E)  .        PUB POINTER                          37000028
001E4B FF                         26462+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26464+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001E4C                      01CFE 26465+         ORG   PGRLUB+LUBLNG*006   POINT TO LUB ENTRY                   35500028
001CFE 04                         26466+         DC    AL1(P00D)  .        PUB POINTER                          37000028
001CFF FF                         26467+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028


                                  26469+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D00                      01D6A 26470+         ORG   F4LUB+LUBLNG*(006+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001D6A 04                         26471+         DC    AL1(P00D)  .        PUB POINTER                          37000028
001D6B FF                         26472+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT           37500028
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  26474+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001D6C                      01DEA 26475+         ORG   F3LUB+LUBLNG*(006+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001DEA 04                         26476+         DC    AL1(P00D)  .        PUB POINTER                          37000028
001DEB FF                         26477+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT          37500028



                                  26479+* SUPERVISOR - ASSGN - 5745-SC-SUP - REL. 34.1                @DY11857 00615034
001DEC                      01E4C 26480+         ORG   F2LUB+LUBLNG*(006+14)          ORG TO FGPGR LUB @D33RDEM 29000033
001E4C 04                         26481+         DC    AL1(P00D)  .        PUB POINTER                          37000028
001E4D FF                         26482+         DC    X'FF' .            SPECIFY STANDARD ASSIGNMENT          37500028



                                  26484+* SUPERVISOR - DPD - 5745-SC-SUP - REL. 34.0                  @D34DDRP 02078834
                                  26485+3, 2032 TRACKS USED FOR 2314
                                  26486+*, 1016 TRACKS USED FOR 3330
                                  26487+*, 2032 TRACKS USED FOR 3340
                                  26488+*, 762 TRACKS USED FOR 3350
                                  26489+*,THE MAX CYL# FOR 2314,3330-1,3330-11,3340 35MB,3340 70MB,3350 IS
                                  26490+*,                  199, 403,     807,    347,      695,    554
001E4E                      10590 26491+         ORG   DPDTAB                                                 02212528
010590 0362                       26492+         DC    X'362'                                                 02214528
010592                            26493+         DS    H                                                      02218428
010594 0001                       26494+         DC    H'001'                                                 02220428
010596 0001                       26495+         DC    H'1'                                                   02222428
010598                      1059E 26496+         ORG   DPDTAB+14                                              02238228
01059E E6D6D9D2F0F1               26497+         DC    C'WORK01'                                              02248528
                                  26498+* SUPERVISOR - SEND - 5745-SC-SUP - REL. 32.0                        01220032
                                  26499+* SUPERVISOR - SGEND - 5745-SC-SUP - REL. 34.1  10/18/76-15.50 @DY20398 00086134
0105A4                    14A60 26500+         ORG   IOTEND .                ORG TO END OF IOTAB              04620030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  26503+*********************************************************************487 11763134
                                  26504+*        THE FIRST 80 BYTES OF THE PDAREA ARE USED FOR POINTERS TO  487 11763834
                                  26505+*        THE HOOKS IN THE SUPERVISOR AND FOR TRACE INFORMATION.     487 11764534
                                  26506+*        NO STATEMENT CAN BE DELETED OR INSERTED IN THESE           487 11765234
                                  26507+*        FIRST 80 BYTES.                                            487 11765934
                                  26508+* NOTE : PDAREA MUST START ON DOUBLEWORD BOUNDARY              @D34RDKS 11766234
                                  26509+*********************************************************************487 11766634

014A60                            26511+         DS    0D                ALIGN TO DOUBLEWORD BOUNDARY @D34RDKS 11767634
014A60 00014FD7                   26512+PDAREA   DC    A(PDAREAND) .     ADDRESS OF LAST BYTE OF PD AREA   487 11768034
014A64 00002EDE                   26513+         DC    A(PDINTRHK) .     ADDRESS OF INTERRUPT TRACE HOOK   ALF 11768734
014A68 0000DA6A                   26514+         DC    A(PDSIOHK) .      ADDRESS OF START I/O HOOK         ALF 11769434
014A6C 0000831E                   26515+         DC    A(PDTRANHK) .     ADDRESS OF TRANSIENT DUMP HOOK    ALF 11770134
014A70 00000C5E                   26516+         DC    A(PDFLTHK1) .     ADDRESS OF F/L TRACE HOOK 1       ALF 11770834
014A74 00006778                   26517+         DC    A(PDFLTHK2) .     ADDRESS OF F/L TRACE HOOK 2       ALF 11771534
014A78 00000000                   26518+         DC    A(0) .            RESERVED FOR LATER IMPACT         ALF 11772234


014A7C 0000000000000000           26520+PDREGSAV DC    3F'0' .           SAVE AREA FOR REGISTERS 9,10,11   ALF 11773634

                                  26522+*********************************************************************487 11775034
                                  26523+*        THE SECOND 40 BYTES OF THE PDAREA ARE USED BY THE PDAID    487 11775734
                                  26524+*        INITIALIZER TO STORE INFORMATION ABOUT THE TRACES.           * 11776434
                                  26525+*********************************************************************487 11777134

014A88                            26527+PDPHNM   DS    CL8 .             NAME OF PDAID RTN TO BE EXECUTED  ALF 11778534
014A90                            26528+PDVM     DS    CL2 .             VERS AND MOD LEVEL OF PDAID RTN   ALF 11779234
014A92                            26529+PDLOG    DS    CL2 .             BIN REPRESENT SYSLOG              ALF 11779934
014A94                            26530+PDPHOD   DS    CL2 .             BIN REPRESENT OUTPUT DEVICE       ALF 11780634
014A96                            26531+PDIGN1   DS    CL2 .             BIN REPRESENT 'TRC' OR 'IGN' DEV  ALF 11781334
014A98                            26532+PDIGN2   DS    CL2 .             BIN REPRESENT 'TRC' OR 'IGN' DEV  ALF 11782034
014A9A                            26533+PDIGN3   DS    CL2 .             BIN REPRESENT 'TRC' OR 'IGN' DEV  ALF 11782734
014A9C                            26534+PDAAPTS  DS    CL4 .             ALTERNATE AREA START ADDRESS      ALF 11783434
014AA0                            26535+PDAAPTE  DS    CL4 .             ALTERNATE AREA END ADDRESS        ALF 11784134
014AA4                            26536+PDADDR   DS    CL4 .             ADDR CHAN QUEUE POINTER FOR SYSLOGALF 11784834
014AA8                            26537+PDPART1  DS    CL1 .             PARTITION TO IGNORE               ALF 11785534
014AA9                            26538+PDPART2  DS    CL1 .             PARTITION TO IGNORE               ALF 11786234
014AAA                            26539+PDPART3  DS    CL1 .             PARTITION TO IGNORE               ALF 11786934
014AAB                            26540+PDPART4  DS    CL1 .             PARTITION TO IGNORE                JS 11787634
014AAC                            26541+PDPART5  DS    CL1 .             PARTITION TO IGNORE                JS 11788334
014AAD                            26542+         DS    CL14 .            RESERVED FOR FURTHER PARTITIONS    JS 11789034
014ABB                            26543+PDKEEPSW DS    CL1 .             X'00'=TRC   X'80'=IGN             ALF 11789734
014ABC                            26544+         DS    CL4 .             RESERVED AREA                     ALF 11790434

                                  26546+*********************************************************************487 11791834
                                  26547+*        THE FOLLOWING ENTRIES ARE USED BY THE PDAID HOOKS TO         * 11792534
                                  26548+*        BRANCH. THEY REPRESENT THE FIRST INSTRUCTIONS IN THE         * 11793234
                                  26549+*        PDAID ROUTINES.                                              * 11793934
                                  26550+*********************************************************************487 11794634
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

014AC0                           26552+PDENTRY1 DS    CL4 .              ENTRY 1                              ALF 11796034
014AC4                           26553+PDENTRY2 DS    CL4 .              ENTRY 2                              ALF 11796734
014AC8                           26554+PDENTRY3 DS    CL4 .              ENTRY 3                              ALF 11797434
014ACC                           26555+PDENTRY4 DS    CL4 .              ENTRY 4                              ALF 11798134
014AD0                     14FD8 26556+         ORG   PDAREA+1400  .                                          ALF 11798834
                           14FD7 26557+PDAREAND EQU   *-1 .              LAST BYTE OF PD AREA                 ALF 11799534
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

014FD8                            26559+         DS    0D .                                                    EM 12060030
014FD8 0002000000000000           26560+PFT      DC    2048AL2(2,0,(*-PFT)/8,0)     . PAGE FRAME TABLE         EM 12090030

018FD8 0000400000004000           26562+Q1       DC    2A(Q1-PFT) .       QUEUE HEADERS MUST BE STORED         EM 12150030
018FE0 0000400800004008           26563+Q2       DC    2A(Q2-PFT) .       DIRECTLY BEHIND PFT                  EM 12180030
018FE8 0000401000004010           26564+Q3       DC    2A(Q3-PFT) .                                            EM 12210030
018FF0 0000401800004018           26565+Q4       DC    2A(Q4-PFT) .                                            EM 12240030
018FF8 0000402000004020           26566+Q5       DC    2A(Q5-PFT) .                                            EM 12270030

019000 0000000000000000           26568+PFTX     DC    2048X'00'     .    PAGE FRAME TABLE EXTENSION         EM 12360030
019800                            26569+         DS    0D .               PAGE TABLE NEEDS DOUBLE W.BOUNDARY EM 12540030
                                  26570+*        THE PAGE TABLE IS INITIALIZED  SO THAT THE ENTRIES UP TO    EM 12570030
                                  26571+*        RSIZE ARE VALID FOR IPL.PROPER INIT.TAKES PLACE AT IPL TIME EM 12600030
019800 0000000800100018           26572+PT       DC    2048AL2(((*-PT)/2)*8)     .                           EM 12630030
01A800 8001800180018001           26573+         DC    6112X'8001' .                                           EM 12690030

                         1D7C0    26575+SBDY     EQU   * .                FORCE BOUND.TO 64 BYTE FOR SEG.TAB.EM 12750030
                         1D7C0    26576+STAB     EQU   (((SBDY-SYSS00+63)/64)*64)+SYSS00                      EM 12780030
01D7C0                   1D7C0    26577+         ORG   STAB                                                    EM 12810030
01D7C0 F0                         26578+         DC    X'F0' .                                                 EM 12900030
01D7C1 019800                     26579+         DC    AL3(PT+0)    .                                          EM 12930030
01D7C4 F0                         26580+         DC    X'F0' .                                                 EM 12900030
01D7C5 019840                     26581+         DC    AL3(PT+64)   .                                          EM 12930030
01D7C8 F0                         26582+         DC    X'F0' .                                                 EM 12900030
01D7C9 019880                     26583+         DC    AL3(PT+128)  .                                          EM 12930030
01D7CC F0                         26584+         DC    X'F0' .                                                 EM 12900030
01D7CD 0198C0                     26585+         DC    AL3(PT+192)  .                                          EM 12930030
01D7D0 F0                         26586+         DC    X'F0' .                                                 EM 12900030
01D7D1 019900                     26587+         DC    AL3(PT+256)  .                                          EM 12930030
01D7D4 F0                         26588+         DC    X'F0' .                                                 EM 12900030
01D7D5 019940                     26589+         DC    AL3(PT+320)  .                                          EM 12930030
01D7D8 F0                         26590+         DC    X'F0' .                                                 EM 12900030
01D7D9 019980                     26591+         DC    AL3(PT+384)  .                                          EM 12930030
01D7DC F0                         26592+         DC    X'F0' .                                                 EM 12900030
01D7DD 0199C0                     26593+         DC    AL3(PT+448)  .                                          EM 12930030
01D7E0 F0                         26594+         DC    X'F0' .                                                 EM 12900030
01D7E1 019A00                     26595+         DC    AL3(PT+512)  .                                          EM 12930030
01D7E4 F0                         26596+         DC    X'F0' .                                                 EM 12900030
01D7E5 019A40                     26597+         DC    AL3(PT+576)  .                                          EM 12930030
01D7E8 F0                         26598+         DC    X'F0' .                                                 EM 12900030
01D7E9 019A80                     26599+         DC    AL3(PT+640)  .                                          EM 12930030
01D7EC F0                         26600+         DC    X'F0' .                                                 EM 12900030
01D7ED 019AC0                     26601+         DC    AL3(PT+704)  .                                          EM 12930030
01D7F0 F0                         26602+         DC    X'F0' .                                                 EM 12900030
01D7F1 019B00                     26603+         DC    AL3(PT+768)  .                                          EM 12930030
01D7F4 F0                         26604+         DC    X'F0' .                                                 EM 12900030
01D7F5 019B40                     26605+         DC    AL3(PT+832)  .                                          EM 12930030
01D7F8 F0                         26606+         DC    X'F0' .                                                 EM 12900030
01D7F9 019B80                     26607+         DC    AL3(PT+896)  .                                          EM 12930030
01D7FC F0                         26608+         DC    X'F0' .                                                 EM 12900030
01D7FD 019BC0                     26609+         DC    AL3(PT+960)  .                                          EM 12930030
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01D800 F0                          26610+         DC    X'F0' .                                                  EM 12900030
01D801 019C00                      26611+         DC    AL3(PT+1024) .                                           EM 12930030
01D804 F0                          26612+         DC    X'F0' .                                                  EM 12900030
01D805 019C40                      26613+         DC    AL3(PT+1088) .                                           EM 12930030
01D808 F0                          26614+         DC    X'F0' .                                                  EM 12900030
01D809 019C80                      26615+         DC    AL3(PT+1152) .                                           EM 12930030
01D80C F0                          26616+         DC    X'F0' .                                                  EM 12900030
01D80D 019CC0                      26617+         DC    AL3(PT+1216) .                                           EM 12930030
01D810 F0                          26618+         DC    X'F0' .                                                  EM 12900030
01D811 019D00                      26619+         DC    AL3(PT+1280) .                                           EM 12930030
01D814 F0                          26620+         DC    X'F0' .                                                  EM 12900030
01D815 019D40                      26621+         DC    AL3(PT+1344) .                                           EM 12930030
01D818 F0                          26622+         DC    X'F0' .                                                  EM 12900030
01D819 019D80                      26623+         DC    AL3(PT+1408) .                                           EM 12930030
01D81C F0                          26624+         DC    X'F0' .                                                  EM 12900030
01D81D 019DC0                      26625+         DC    AL3(PT+1472) .                                           EM 12930030
01D820 F0                          26626+         DC    X'F0' .                                                  EM 12900030
01D821 019E00                      26627+         DC    AL3(PT+1536) .                                           EM 12930030
01D824 F0                          26628+         DC    X'F0' .                                                  EM 12900030
01D825 019E40                      26629+         DC    AL3(PT+1600) .                                           EM 12930030
01D828 F0                          26630+         DC    X'F0' .                                                  EM 12900030
01D829 019E80                      26631+         DC    AL3(PT+1664) .                                           EM 12930030
01D82C F0                          26632+         DC    X'F0' .                                                  EM 12900030
01D82D 019EC0                      26633+         DC    AL3(PT+1728) .                                           EM 12930030
01D830 F0                          26634+         DC    X'F0' .                                                  EM 12900030
01D831 019F00                      26635+         DC    AL3(PT+1792) .                                           EM 12930030
01D834 F0                          26636+         DC    X'F0' .                                                  EM 12900030
01D835 019F40                      26637+         DC    AL3(PT+1856) .                                           EM 12930030
01D838 F0                          26638+         DC    X'F0' .                                                  EM 12900030
01D839 019F80                      26639+         DC    AL3(PT+1920) .                                           EM 12930030
01D83C F0                          26640+         DC    X'F0' .                                                  EM 12900030
01D83D 019FC0                      26641+         DC    AL3(PT+1984) .                                           EM 12930030
01D840 F0                          26642+         DC    X'F0' .                                                  EM 12900030
01D841 01A000                      26643+         DC    AL3(PT+2048) .                                           EM 12930030
01D844 F0                          26644+         DC    X'F0' .                                                  EM 12900030
01D845 01A040                      26645+         DC    AL3(PT+2112) .                                           EM 12930030
01D848 F0                          26646+         DC    X'F0' .                                                  EM 12900030
01D849 01A080                      26647+         DC    AL3(PT+2176) .                                           EM 12930030
01D84C F0                          26648+         DC    X'F0' .                                                  EM 12900030
01D84D 01A0C0                      26649+         DC    AL3(PT+2240) .                                           EM 12930030
01D850 F0                          26650+         DC    X'F0' .                                                  EM 12900030
01D851 01A100                      26651+         DC    AL3(PT+2304) .                                           EM 12930030
01D854 F0                          26652+         DC    X'F0' .                                                  EM 12900030
01D855 01A140                      26653+         DC    AL3(PT+2368) .                                           EM 12930030
01D858 F0                          26654+         DC    X'F0' .                                                  EM 12900030
01D859 01A180                      26655+         DC    AL3(PT+2432) .                                           EM 12930030
01D85C F0                          26656+         DC    X'F0' .                                                  EM 12900030
01D85D 01A1C0                      26657+         DC    AL3(PT+2496) .                                           EM 12930030
01D860 F0                          26658+         DC    X'F0' .                                                  EM 12900030
01D861 01A200                      26659+         DC    AL3(PT+2560) .                                           EM 12930030
01D864 F0                          26660+         DC    X'F0' .                                                  EM 12900030
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01D865 01A240                    26661+         DC    AL3(PT+2624) .                                    EM 12930030
01D868 F0                        26662+         DC    X'F0' .                                           EM 12900030
01D869 01A280                    26663+         DC    AL3(PT+2688) .                                    EM 12930030
01D86C F0                        26664+         DC    X'F0' .                                           EM 12900030
01D86D 01A2C0                    26665+         DC    AL3(PT+2752) .                                    EM 12930030
01D870 F0                        26666+         DC    X'F0' .                                           EM 12900030
01D871 01A300                    26667+         DC    AL3(PT+2816) .                                    EM 12930030
01D874 F0                        26668+         DC    X'F0' .                                           EM 12900030
01D875 01A340                    26669+         DC    AL3(PT+2880) .                                    EM 12930030
01D878 F0                        26670+         DC    X'F0' .                                           EM 12900030
01D879 01A380                    26671+         DC    AL3(PT+2944) .                                    EM 12930030
01D87C F0                        26672+         DC    X'F0' .                                           EM 12900030
01D87D 01A3C0                    26673+         DC    AL3(PT+3008) .                                    EM 12930030
01D880 F0                        26674+         DC    X'F0' .                                           EM 12900030
01D881 01A400                    26675+         DC    AL3(PT+3072) .                                    EM 12930030
01D884 F0                        26676+         DC    X'F0' .                                           EM 12900030
01D885 01A440                    26677+         DC    AL3(PT+3136) .                                    EM 12930030
01D888 F0                        26678+         DC    X'F0' .                                           EM 12900030
01D889 01A480                    26679+         DC    AL3(PT+3200) .                                    EM 12930030
01D88C F0                        26680+         DC    X'F0' .                                           EM 12900030
01D88D 01A4C0                    26681+         DC    AL3(PT+3264) .                                    EM 12930030
01D890 F0                        26682+         DC    X'F0' .                                           EM 12900030
01D891 01A500                    26683+         DC    AL3(PT+3328) .                                    EM 12930030
01D894 F0                        26684+         DC    X'F0' .                                           EM 12900030
01D895 01A540                    26685+         DC    AL3(PT+3392) .                                    EM 12930030
01D898 F0                        26686+         DC    X'F0' .                                           EM 12900030
01D899 01A580                    26687+         DC    AL3(PT+3456) .                                    EM 12930030
01D89C F0                        26688+         DC    X'F0' .                                           EM 12900030
01D89D 01A5C0                    26689+         DC    AL3(PT+3520) .                                    EM 12930030
01D8A0 F0                        26690+         DC    X'F0' .                                           EM 12900030
01D8A1 01A600                    26691+         DC    AL3(PT+3584) .                                    EM 12930030
01D8A4 F0                        26692+         DC    X'F0' .                                           EM 12900030
01D8A5 01A640                    26693+         DC    AL3(PT+3648) .                                    EM 12930030
01D8A8 F0                        26694+         DC    X'F0' .                                           EM 12900030
01D8A9 01A680                    26695+         DC    AL3(PT+3712) .                                    EM 12930030
01D8AC F0                        26696+         DC    X'F0' .                                           EM 12900030
01D8AD 01A6C0                    26697+         DC    AL3(PT+3776) .                                    EM 12930030
01D8B0 F0                        26698+         DC    X'F0' .                                           EM 12900030
01D8B1 01A700                    26699+         DC    AL3(PT+3840) .                                    EM 12930030
01D8B4 F0                        26700+         DC    X'F0' .                                           EM 12900030
01D8B5 01A740                    26701+         DC    AL3(PT+3904) .                                    EM 12930030
01D8B8 F0                        26702+         DC    X'F0' .                                           EM 12900030
01D8B9 01A780                    26703+         DC    AL3(PT+3968) .                                    EM 12930030
01D8BC F0                        26704+         DC    X'F0' .                                           EM 12900030
01D8BD 01A7C0                    26705+         DC    AL3(PT+4032) .                                    EM 12930030
01D8C0 F0                        26706+         DC    X'F0' .                                           EM 12900030
01D8C1 01A800                    26707+         DC    AL3(PT+4096) .                                    EM 12930030
01D8C4 F0                        26708+         DC    X'F0' .                                           EM 12900030
01D8C5 01A840                    26709+         DC    AL3(PT+4160) .                                    EM 12930030
01D8C8 F0                        26710+         DC    X'F0' .                                           EM 12900030
01D8C9 01A880                    26711+         DC    AL3(PT+4224) .                                    EM 12930030
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01D8CC F0                          26712+         DC    X'F0' .                                                  EM 12900030
01D8CD 01A8C0                      26713+         DC    AL3(PT+4288) .                                           EM 12930030
01D8D0 F0                          26714+         DC    X'F0' .                                                  EM 12900030
01D8D1 01A900                      26715+         DC    AL3(PT+4352) .                                           EM 12930030
01D8D4 F0                          26716+         DC    X'F0' .                                                  EM 12900030
01D8D5 01A940                      26717+         DC    AL3(PT+4416) .                                           EM 12930030
01D8D8 F0                          26718+         DC    X'F0' .                                                  EM 12900030
01D8D9 01A980                      26719+         DC    AL3(PT+4480) .                                           EM 12930030
01D8DC F0                          26720+         DC    X'F0' .                                                  EM 12900030
01D8DD 01A9C0                      26721+         DC    AL3(PT+4544) .                                           EM 12930030
01D8E0 F0                          26722+         DC    X'F0' .                                                  EM 12900030
01D8E1 01AA00                      26723+         DC    AL3(PT+4608) .                                           EM 12930030
01D8E4 F0                          26724+         DC    X'F0' .                                                  EM 12900030
01D8E5 01AA40                      26725+         DC    AL3(PT+4672) .                                           EM 12930030
01D8E8 F0                          26726+         DC    X'F0' .                                                  EM 12900030
01D8E9 01AA80                      26727+         DC    AL3(PT+4736) .                                           EM 12930030
01D8EC F0                          26728+         DC    X'F0' .                                                  EM 12900030
01D8ED 01AAC0                      26729+         DC    AL3(PT+4800) .                                           EM 12930030
01D8F0 F0                          26730+         DC    X'F0' .                                                  EM 12900030
01D8F1 01AB00                      26731+         DC    AL3(PT+4864) .                                           EM 12930030
01D8F4 F0                          26732+         DC    X'F0' .                                                  EM 12900030
01D8F5 01AB40                      26733+         DC    AL3(PT+4928) .                                           EM 12930030
01D8F8 F0                          26734+         DC    X'F0' .                                                  EM 12900030
01D8F9 01AB80                      26735+         DC    AL3(PT+4992) .                                           EM 12930030
01D8FC F0                          26736+         DC    X'F0' .                                                  EM 12900030
01D8FD 01ABC0                      26737+         DC    AL3(PT+5056) .                                           EM 12930030
01D900 F0                          26738+         DC    X'F0' .                                                  EM 12900030
01D901 01AC00                      26739+         DC    AL3(PT+5120) .                                           EM 12930030
01D904 F0                          26740+         DC    X'F0' .                                                  EM 12900030
01D905 01AC40                      26741+         DC    AL3(PT+5184) .                                           EM 12930030
01D908 F0                          26742+         DC    X'F0' .                                                  EM 12900030
01D909 01AC80                      26743+         DC    AL3(PT+5248) .                                           EM 12930030
01D90C F0                          26744+         DC    X'F0' .                                                  EM 12900030
01D90D 01ACC0                      26745+         DC    AL3(PT+5312) .                                           EM 12930030
01D910 F0                          26746+         DC    X'F0' .                                                  EM 12900030
01D911 01AD00                      26747+         DC    AL3(PT+5376) .                                           EM 12930030
01D914 F0                          26748+         DC    X'F0' .                                                  EM 12900030
01D915 01AD40                      26749+         DC    AL3(PT+5440) .                                           EM 12930030
01D918 F0                          26750+         DC    X'F0' .                                                  EM 12900030
01D919 01AD80                      26751+         DC    AL3(PT+5504) .                                           EM 12930030
01D91C F0                          26752+         DC    X'F0' .                                                  EM 12900030
01D91D 01ADC0                      26753+         DC    AL3(PT+5568) .                                           EM 12930030
01D920 F0                          26754+         DC    X'F0' .                                                  EM 12900030
01D921 01AE00                      26755+         DC    AL3(PT+5632) .                                           EM 12930030
01D924 F0                          26756+         DC    X'F0' .                                                  EM 12900030
01D925 01AE40                      26757+         DC    AL3(PT+5696) .                                           EM 12930030
01D928 F0                          26758+         DC    X'F0' .                                                  EM 12900030
01D929 01AE80                      26759+         DC    AL3(PT+5760) .                                           EM 12930030
01D92C F0                          26760+         DC    X'F0' .                                                  EM 12900030
01D92D 01AEC0                      26761+         DC    AL3(PT+5824) .                                           EM 12930030
01D930 F0                          26762+         DC    X'F0' .                                                  EM 12900030
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01D931 01AF00                    26763+         DC    AL3(PT+5888) .                                    EM 12930030
01D934 F0                        26764+         DC    X'F0' .                                           EM 12900030
01D935 01AF40                    26765+         DC    AL3(PT+5952) .                                    EM 12930030
01D938 F0                        26766+         DC    X'F0' .                                           EM 12900030
01D939 01AF80                    26767+         DC    AL3(PT+6016) .                                    EM 12930030
01D93C F0                        26768+         DC    X'F0' .                                           EM 12900030
01D93D 01AFC0                    26769+         DC    AL3(PT+6080) .                                    EM 12930030
01D940 F0                        26770+         DC    X'F0' .                                           EM 12900030
01D941 01B000                    26771+         DC    AL3(PT+6144) .                                    EM 12930030
01D944 F0                        26772+         DC    X'F0' .                                           EM 12900030
01D945 01B040                    26773+         DC    AL3(PT+6208) .                                    EM 12930030
01D948 F0                        26774+         DC    X'F0' .                                           EM 12900030
01D949 01B080                    26775+         DC    AL3(PT+6272) .                                    EM 12930030
01D94C F0                        26776+         DC    X'F0' .                                           EM 12900030
01D94D 01B0C0                    26777+         DC    AL3(PT+6336) .                                    EM 12930030
01D950 F0                        26778+         DC    X'F0' .                                           EM 12900030
01D951 01B100                    26779+         DC    AL3(PT+6400) .                                    EM 12930030
01D954 F0                        26780+         DC    X'F0' .                                           EM 12900030
01D955 01B140                    26781+         DC    AL3(PT+6464) .                                    EM 12930030
01D958 F0                        26782+         DC    X'F0' .                                           EM 12900030
01D959 01B180                    26783+         DC    AL3(PT+6528) .                                    EM 12930030
01D95C F0                        26784+         DC    X'F0' .                                           EM 12900030
01D95D 01B1C0                    26785+         DC    AL3(PT+6592) .                                    EM 12930030
01D960 F0                        26786+         DC    X'F0' .                                           EM 12900030
01D961 01B200                    26787+         DC    AL3(PT+6656) .                                    EM 12930030
01D964 F0                        26788+         DC    X'F0' .                                           EM 12900030
01D965 01B240                    26789+         DC    AL3(PT+6720) .                                    EM 12930030
01D968 F0                        26790+         DC    X'F0' .                                           EM 12900030
01D969 01B280                    26791+         DC    AL3(PT+6784) .                                    EM 12930030
01D96C F0                        26792+         DC    X'F0' .                                           EM 12900030
01D96D 01B2C0                    26793+         DC    AL3(PT+6848) .                                    EM 12930030
01D970 F0                        26794+         DC    X'F0' .                                           EM 12900030
01D971 01B300                    26795+         DC    AL3(PT+6912) .                                    EM 12930030
01D974 F0                        26796+         DC    X'F0' .                                           EM 12900030
01D975 01B340                    26797+         DC    AL3(PT+6976) .                                    EM 12930030
01D978 F0                        26798+         DC    X'F0' .                                           EM 12900030
01D979 01B380                    26799+         DC    AL3(PT+7040) .                                    EM 12930030
01D97C F0                        26800+         DC    X'F0' .                                           EM 12900030
01D97D 01B3C0                    26801+         DC    AL3(PT+7104) .                                    EM 12930030
01D980 F0                        26802+         DC    X'F0' .                                           EM 12900030
01D981 01B400                    26803+         DC    AL3(PT+7168) .                                    EM 12930030
01D984 F0                        26804+         DC    X'F0' .                                           EM 12900030
01D985 01B440                    26805+         DC    AL3(PT+7232) .                                    EM 12930030
01D988 F0                        26806+         DC    X'F0' .                                           EM 12900030
01D989 01B480                    26807+         DC    AL3(PT+7296) .                                    EM 12930030
01D98C F0                        26808+         DC    X'F0' .                                           EM 12900030
01D98D 01B4C0                    26809+         DC    AL3(PT+7360) .                                    EM 12930030
01D990 F0                        26810+         DC    X'F0' .                                           EM 12900030
01D991 01B500                    26811+         DC    AL3(PT+7424) .                                    EM 12930030
01D994 F0                        26812+         DC    X'F0' .                                           EM 12900030
01D995 01B540                    26813+         DC    AL3(PT+7488) .                                    EM 12930030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

01D998 F0                         26814+         DC    X'F0' .                                                  EM 12900030
01D999 01B580                     26815+         DC    AL3(PT+7552) .                                           EM 12930030
01D99C F0                         26816+         DC    X'F0' .                                                  EM 12900030
01D99D 01B5C0                     26817+         DC    AL3(PT+7616) .                                           EM 12930030
01D9A0 F0                         26818+         DC    X'F0' .                                                  EM 12900030
01D9A1 01B600                     26819+         DC    AL3(PT+7680) .                                           EM 12930030
01D9A4 F0                         26820+         DC    X'F0' .                                                  EM 12900030
01D9A5 01B640                     26821+         DC    AL3(PT+7744) .                                           EM 12930030
01D9A8 F0                         26822+         DC    X'F0' .                                                  EM 12900030
01D9A9 01B680                     26823+         DC    AL3(PT+7808) .                                           EM 12930030
01D9AC F0                         26824+         DC    X'F0' .                                                  EM 12900030
01D9AD 01B6C0                     26825+         DC    AL3(PT+7872) .                                           EM 12930030
01D9B0 F0                         26826+         DC    X'F0' .                                                  EM 12900030
01D9B1 01B700                     26827+         DC    AL3(PT+7936) .                                           EM 12930030
01D9B4 F0                         26828+         DC    X'F0' .                                                  EM 12900030
01D9B5 01B740                     26829+         DC    AL3(PT+8000) .                                           EM 12930030
01D9B8 F0                         26830+         DC    X'F0' .                                                  EM 12900030
01D9B9 01B780                     26831+         DC    AL3(PT+8064) .                                           EM 12930030
01D9BC F0                         26832+         DC    X'F0' .                                                  EM 12900030
01D9BD 01B7C0                     26833+         DC    AL3(PT+8128) .                                           EM 12930030
01D9C0 F0                         26834+         DC    X'F0' .                                                  EM 12900030
01D9C1 01B800                     26835+         DC    AL3(PT+8192) .                                           EM 12930030
01D9C4 F0                         26836+         DC    X'F0' .                                                  EM 12900030
01D9C5 01B840                     26837+         DC    AL3(PT+8256) .                                           EM 12930030
01D9C8 F0                         26838+         DC    X'F0' .                                                  EM 12900030
01D9C9 01B880                     26839+         DC    AL3(PT+8320) .                                           EM 12930030
01D9CC F0                         26840+         DC    X'F0' .                                                  EM 12900030
01D9CD 01B8C0                     26841+         DC    AL3(PT+8384) .                                           EM 12930030
01D9D0 F0                         26842+         DC    X'F0' .                                                  EM 12900030
01D9D1 01B900                     26843+         DC    AL3(PT+8448) .                                           EM 12930030
01D9D4 F0                         26844+         DC    X'F0' .                                                  EM 12900030
01D9D5 01B940                     26845+         DC    AL3(PT+8512) .                                           EM 12930030
01D9D8 F0                         26846+         DC    X'F0' .                                                  EM 12900030
01D9D9 01B980                     26847+         DC    AL3(PT+8576) .                                           EM 12930030
01D9DC F0                         26848+         DC    X'F0' .                                                  EM 12900030
01D9DD 01B9C0                     26849+         DC    AL3(PT+8640) .                                           EM 12930030
01D9E0 F0                         26850+         DC    X'F0' .                                                  EM 12900030
01D9E1 01BA00                     26851+         DC    AL3(PT+8704) .                                           EM 12930030
01D9E4 F0                         26852+         DC    X'F0' .                                                  EM 12900030
01D9E5 01BA40                     26853+         DC    AL3(PT+8768) .                                           EM 12930030
01D9E8 F0                         26854+         DC    X'F0' .                                                  EM 12900030
01D9E9 01BA80                     26855+         DC    AL3(PT+8832) .                                           EM 12930030
01D9EC F0                         26856+         DC    X'F0' .                                                  EM 12900030
01D9ED 01BAC0                     26857+         DC    AL3(PT+8896) .                                           EM 12930030
01D9F0 F0                         26858+         DC    X'F0' .                                                  EM 12900030
01D9F1 01BB00                     26859+         DC    AL3(PT+8960) .                                           EM 12930030
01D9F4 F0                         26860+         DC    X'F0' .                                                  EM 12900030
01D9F5 01BB40                     26861+         DC    AL3(PT+9024) .                                           EM 12930030
01D9F8 F0                         26862+         DC    X'F0' .                                                  EM 12900030
01D9F9 01BB80                     26863+         DC    AL3(PT+9088) .                                           EM 12930030
01D9FC F0                         26864+         DC    X'F0' .                                                  EM 12900030
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01D9FD 01BBC0                  26865+         DC    AL3(PT+9152) .                                    EM 12930030
01DA00 F0                      26866+         DC    X'F0' .                                           EM 12900030
01DA01 01BC00                  26867+         DC    AL3(PT+9216) .                                    EM 12930030
01DA04 F0                      26868+         DC    X'F0' .                                           EM 12900030
01DA05 01BC40                  26869+         DC    AL3(PT+9280) .                                    EM 12930030
01DA08 F0                      26870+         DC    X'F0' .                                           EM 12900030
01DA09 01BC80                  26871+         DC    AL3(PT+9344) .                                    EM 12930030
01DA0C F0                      26872+         DC    X'F0' .                                           EM 12900030
01DA0D 01BCC0                  26873+         DC    AL3(PT+9408) .                                    EM 12930030
01DA10 F0                      26874+         DC    X'F0' .                                           EM 12900030
01DA11 01BD00                  26875+         DC    AL3(PT+9472) .                                    EM 12930030
01DA14 F0                      26876+         DC    X'F0' .                                           EM 12900030
01DA15 01BD40                  26877+         DC    AL3(PT+9536) .                                    EM 12930030
01DA18 F0                      26878+         DC    X'F0' .                                           EM 12900030
01DA19 01BD80                  26879+         DC    AL3(PT+9600) .                                    EM 12930030
01DA1C F0                      26880+         DC    X'F0' .                                           EM 12900030
01DA1D 01BDC0                  26881+         DC    AL3(PT+9664) .                                    EM 12930030
01DA20 F0                      26882+         DC    X'F0' .                                           EM 12900030
01DA21 01BE00                  26883+         DC    AL3(PT+9728) .                                    EM 12930030
01DA24 F0                      26884+         DC    X'F0' .                                           EM 12900030
01DA25 01BE40                  26885+         DC    AL3(PT+9792) .                                    EM 12930030
01DA28 F0                      26886+         DC    X'F0' .                                           EM 12900030
01DA29 01BE80                  26887+         DC    AL3(PT+9856) .                                    EM 12930030
01DA2C F0                      26888+         DC    X'F0' .                                           EM 12900030
01DA2D 01BEC0                  26889+         DC    AL3(PT+9920) .                                    EM 12930030
01DA30 F0                      26890+         DC    X'F0' .                                           EM 12900030
01DA31 01BF00                  26891+         DC    AL3(PT+9984) .                                    EM 12930030
01DA34 F0                      26892+         DC    X'F0' .                                           EM 12900030
01DA35 01BF40                  26893+         DC    AL3(PT+10048) .                                   EM 12930030
01DA38 F0                      26894+         DC    X'F0' .                                           EM 12900030
01DA39 01BF80                  26895+         DC    AL3(PT+10112) .                                   EM 12930030
01DA3C F0                      26896+         DC    X'F0' .                                           EM 12900030
01DA3D 01BFC0                  26897+         DC    AL3(PT+10176) .                                   EM 12930030
01DA40 F0                      26898+         DC    X'F0' .                                           EM 12900030
01DA41 01C000                  26899+         DC    AL3(PT+10240) .                                   EM 12930030
01DA44 F0                      26900+         DC    X'F0' .                                           EM 12900030
01DA45 01C040                  26901+         DC    AL3(PT+10304) .                                   EM 12930030
01DA48 F0                      26902+         DC    X'F0' .                                           EM 12900030
01DA49 01C080                  26903+         DC    AL3(PT+10368) .                                   EM 12930030
01DA4C F0                      26904+         DC    X'F0' .                                           EM 12900030
01DA4D 01C0C0                  26905+         DC    AL3(PT+10432) .                                   EM 12930030
01DA50 F0                      26906+         DC    X'F0' .                                           EM 12900030
01DA51 01C100                  26907+         DC    AL3(PT+10496) .                                   EM 12930030
01DA54 F0                      26908+         DC    X'F0' .                                           EM 12900030
01DA55 01C140                  26909+         DC    AL3(PT+10560) .                                   EM 12930030
01DA58 F0                      26910+         DC    X'F0' .                                           EM 12900030
01DA59 01C180                  26911+         DC    AL3(PT+10624) .                                   EM 12930030
01DA5C F0                      26912+         DC    X'F0' .                                           EM 12900030
01DA5D 01C1C0                  26913+         DC    AL3(PT+10688) .                                   EM 12930030
01DA60 F0                      26914+         DC    X'F0' .                                           EM 12900030
01DA61 01C200                  26915+         DC    AL3(PT+10752) .                                   EM 12930030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

01DA64 F0                         26916+         DC    X'F0' .                                                  EM 12900030
01DA65 01C240                     26917+         DC    AL3(PT+10816) .                                          EM 12930030
01DA68 F0                         26918+         DC    X'F0' .                                                  EM 12900030
01DA69 01C280                     26919+         DC    AL3(PT+10880) .                                          EM 12930030
01DA6C F0                         26920+         DC    X'F0' .                                                  EM 12900030
01DA6D 01C2C0                     26921+         DC    AL3(PT+10944) .                                          EM 12930030
01DA70 F0                         26922+         DC    X'F0' .                                                  EM 12900030
01DA71 01C300                     26923+         DC    AL3(PT+11008) .                                          EM 12930030
01DA74 F0                         26924+         DC    X'F0' .                                                  EM 12900030
01DA75 01C340                     26925+         DC    AL3(PT+11072) .                                          EM 12930030
01DA78 F0                         26926+         DC    X'F0' .                                                  EM 12900030
01DA79 01C380                     26927+         DC    AL3(PT+11136) .                                          EM 12930030
01DA7C F0                         26928+         DC    X'F0' .                                                  EM 12900030
01DA7D 01C3C0                     26929+         DC    AL3(PT+11200) .                                          EM 12930030
01DA80 F0                         26930+         DC    X'F0' .                                                  EM 12900030
01DA81 01C400                     26931+         DC    AL3(PT+11264) .                                          EM 12930030
01DA84 F0                         26932+         DC    X'F0' .                                                  EM 12900030
01DA85 01C440                     26933+         DC    AL3(PT+11328) .                                          EM 12930030
01DA88 F0                         26934+         DC    X'F0' .                                                  EM 12900030
01DA89 01C480                     26935+         DC    AL3(PT+11392) .                                          EM 12930030
01DA8C F0                         26936+         DC    X'F0' .                                                  EM 12900030
01DA8D 01C4C0                     26937+         DC    AL3(PT+11456) .                                          EM 12930030
01DA90 F0                         26938+         DC    X'F0' .                                                  EM 12900030
01DA91 01C500                     26939+         DC    AL3(PT+11520) .                                          EM 12930030
01DA94 F0                         26940+         DC    X'F0' .                                                  EM 12900030
01DA95 01C540                     26941+         DC    AL3(PT+11584) .                                          EM 12930030
01DA98 F0                         26942+         DC    X'F0' .                                                  EM 12900030
01DA99 01C580                     26943+         DC    AL3(PT+11648) .                                          EM 12930030
01DA9C F0                         26944+         DC    X'F0' .                                                  EM 12900030
01DA9D 01C5C0                     26945+         DC    AL3(PT+11712) .                                          EM 12930030
01DAA0 F0                         26946+         DC    X'F0' .                                                  EM 12900030
01DAA1 01C600                     26947+         DC    AL3(PT+11776) .                                          EM 12930030
01DAA4 F0                         26948+         DC    X'F0' .                                                  EM 12900030
01DAA5 01C640                     26949+         DC    AL3(PT+11840) .                                          EM 12930030
01DAA8 F0                         26950+         DC    X'F0' .                                                  EM 12900030
01DAA9 01C680                     26951+         DC    AL3(PT+11904) .                                          EM 12930030
01DAAC F0                         26952+         DC    X'F0' .                                                  EM 12900030
01DAAD 01C6C0                     26953+         DC    AL3(PT+11968) .                                          EM 12930030
01DAB0 F0                         26954+         DC    X'F0' .                                                  EM 12900030
01DAB1 01C700                     26955+         DC    AL3(PT+12032) .                                          EM 12930030
01DAB4 F0                         26956+         DC    X'F0' .                                                  EM 12900030
01DAB5 01C740                     26957+         DC    AL3(PT+12096) .                                          EM 12930030
01DAB8 F0                         26958+         DC    X'F0' .                                                  EM 12900030
01DAB9 01C780                     26959+         DC    AL3(PT+12160) .                                          EM 12930030
01DABC F0                         26960+         DC    X'F0' .                                                  EM 12900030
01DABD 01C7C0                     26961+         DC    AL3(PT+12224) .                                          EM 12930030
01DAC0 F0                         26962+         DC    X'F0' .                                                  EM 12900030
01DAC1 01C800                     26963+         DC    AL3(PT+12288) .                                          EM 12930030
01DAC4 F0                         26964+         DC    X'F0' .                                                  EM 12900030
01DAC5 01C840                     26965+         DC    AL3(PT+12352) .                                          EM 12930030
01DAC8 F0                         26966+         DC    X'F0' .                                                  EM 12900030
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01DAC9 01C880                    26967+         DC    AL3(PT+12416) .                                    EM 12930030
01DACC F0                        26968+         DC    X'F0' .                                            EM 12900030
01DACD 01C8C0                    26969+         DC    AL3(PT+12480) .                                    EM 12930030
01DAD0 F0                        26970+         DC    X'F0' .                                            EM 12900030
01DAD1 01C900                    26971+         DC    AL3(PT+12544) .                                    EM 12930030
01DAD4 F0                        26972+         DC    X'F0' .                                            EM 12900030
01DAD5 01C940                    26973+         DC    AL3(PT+12608) .                                    EM 12930030
01DAD8 F0                        26974+         DC    X'F0' .                                            EM 12900030
01DAD9 01C980                    26975+         DC    AL3(PT+12672) .                                    EM 12930030
01DADC F0                        26976+         DC    X'F0' .                                            EM 12900030
01DADD 01C9C0                    26977+         DC    AL3(PT+12736) .                                    EM 12930030
01DAE0 F0                        26978+         DC    X'F0' .                                            EM 12900030
01DAE1 01CA00                    26979+         DC    AL3(PT+12800) .                                    EM 12930030
01DAE4 F0                        26980+         DC    X'F0' .                                            EM 12900030
01DAE5 01CA40                    26981+         DC    AL3(PT+12864) .                                    EM 12930030
01DAE8 F0                        26982+         DC    X'F0' .                                            EM 12900030
01DAE9 01CA80                    26983+         DC    AL3(PT+12928) .                                    EM 12930030
01DAEC F0                        26984+         DC    X'F0' .                                            EM 12900030
01DAED 01CAC0                    26985+         DC    AL3(PT+12992) .                                    EM 12930030
01DAF0 F0                        26986+         DC    X'F0' .                                            EM 12900030
01DAF1 01CB00                    26987+         DC    AL3(PT+13056) .                                    EM 12930030
01DAF4 F0                        26988+         DC    X'F0' .                                            EM 12900030
01DAF5 01CB40                    26989+         DC    AL3(PT+13120) .                                    EM 12930030
01DAF8 F0                        26990+         DC    X'F0' .                                            EM 12900030
01DAF9 01CB80                    26991+         DC    AL3(PT+13184) .                                    EM 12930030
01DAFC F0                        26992+         DC    X'F0' .                                            EM 12900030
01DAFD 01CBC0                    26993+         DC    AL3(PT+13248) .                                    EM 12930030
01DB00 F0                        26994+         DC    X'F0' .                                            EM 12900030
01DB01 01CC00                    26995+         DC    AL3(PT+13312) .                                    EM 12930030
01DB04 F0                        26996+         DC    X'F0' .                                            EM 12900030
01DB05 01CC40                    26997+         DC    AL3(PT+13376) .                                    EM 12930030
01DB08 F0                        26998+         DC    X'F0' .                                            EM 12900030
01DB09 01CC80                    26999+         DC    AL3(PT+13440) .                                    EM 12930030
01DB0C F0                        27000+         DC    X'F0' .                                            EM 12900030
01DB0D 01CCC0                    27001+         DC    AL3(PT+13504) .                                    EM 12930030
01DB10 F0                        27002+         DC    X'F0' .                                            EM 12900030
01DB11 01CD00                    27003+         DC    AL3(PT+13568) .                                    EM 12930030
01DB14 F0                        27004+         DC    X'F0' .                                            EM 12900030
01DB15 01CD40                    27005+         DC    AL3(PT+13632) .                                    EM 12930030
01DB18 F0                        27006+         DC    X'F0' .                                            EM 12900030
01DB19 01CD80                    27007+         DC    AL3(PT+13696) .                                    EM 12930030
01DB1C F0                        27008+         DC    X'F0' .                                            EM 12900030
01DB1D 01CDC0                    27009+         DC    AL3(PT+13760) .                                    EM 12930030
01DB20 F0                        27010+         DC    X'F0' .                                            EM 12900030
01DB21 01CE00                    27011+         DC    AL3(PT+13824) .                                    EM 12930030
01DB24 F0                        27012+         DC    X'F0' .                                            EM 12900030
01DB25 01CE40                    27013+         DC    AL3(PT+13888) .                                    EM 12930030
01DB28 F0                        27014+         DC    X'F0' .                                            EM 12900030
01DB29 01CE80                    27015+         DC    AL3(PT+13952) .                                    EM 12930030
01DB2C F0                        27016+         DC    X'F0' .                                            EM 12900030
01DB2D 01CEC0                    27017+         DC    AL3(PT+14016) .                                    EM 12930030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

01DB30 F0                         27018+         DC    X'F0' .                                                  EM 12900030
01DB31 01CF00                     27019+         DC    AL3(PT+14080) .                                          EM 12930030
01DB34 F0                         27020+         DC    X'F0' .                                                  EM 12900030
01DB35 01CF40                     27021+         DC    AL3(PT+14144) .                                          EM 12930030
01DB38 F0                         27022+         DC    X'F0' .                                                  EM 12900030
01DB39 01CF80                     27023+         DC    AL3(PT+14208) .                                          EM 12930030
01DB3C F0                         27024+         DC    X'F0' .                                                  EM 12900030
01DB3D 01CFC0                     27025+         DC    AL3(PT+14272) .                                          EM 12930030
01DB40 F0                         27026+         DC    X'F0' .                                                  EM 12900030
01DB41 01D000                     27027+         DC    AL3(PT+14336) .                                          EM 12930030
01DB44 F0                         27028+         DC    X'F0' .                                                  EM 12900030
01DB45 01D040                     27029+         DC    AL3(PT+14400) .                                          EM 12930030
01DB48 F0                         27030+         DC    X'F0' .                                                  EM 12900030
01DB49 01D080                     27031+         DC    AL3(PT+14464) .                                          EM 12930030
01DB4C F0                         27032+         DC    X'F0' .                                                  EM 12900030
01DB4D 01D0C0                     27033+         DC    AL3(PT+14528) .                                          EM 12930030
01DB50 F0                         27034+         DC    X'F0' .                                                  EM 12900030
01DB51 01D100                     27035+         DC    AL3(PT+14592) .                                          EM 12930030
01DB54 F0                         27036+         DC    X'F0' .                                                  EM 12900030
01DB55 01D140                     27037+         DC    AL3(PT+14656) .                                          EM 12930030
01DB58 F0                         27038+         DC    X'F0' .                                                  EM 12900030
01DB59 01D180                     27039+         DC    AL3(PT+14720) .                                          EM 12930030
01DB5C F0                         27040+         DC    X'F0' .                                                  EM 12900030
01DB5D 01D1C0                     27041+         DC    AL3(PT+14784) .                                          EM 12930030
01DB60 F0                         27042+         DC    X'F0' .                                                  EM 12900030
01DB61 01D200                     27043+         DC    AL3(PT+14848) .                                          EM 12930030
01DB64 F0                         27044+         DC    X'F0' .                                                  EM 12900030
01DB65 01D240                     27045+         DC    AL3(PT+14912) .                                          EM 12930030
01DB68 F0                         27046+         DC    X'F0' .                                                  EM 12900030
01DB69 01D280                     27047+         DC    AL3(PT+14976) .                                          EM 12930030
01DB6C F0                         27048+         DC    X'F0' .                                                  EM 12900030
01DB6D 01D2C0                     27049+         DC    AL3(PT+15040) .                                          EM 12930030
01DB70 F0                         27050+         DC    X'F0' .                                                  EM 12900030
01DB71 01D300                     27051+         DC    AL3(PT+15104) .                                          EM 12930030
01DB74 F0                         27052+         DC    X'F0' .                                                  EM 12900030
01DB75 01D340                     27053+         DC    AL3(PT+15168) .                                          EM 12930030
01DB78 F0                         27054+         DC    X'F0' .                                                  EM 12900030
01DB79 01D380                     27055+         DC    AL3(PT+15232) .                                          EM 12930030
01DB7C F0                         27056+         DC    X'F0' .                                                  EM 12900030
01DB7D 01D3C0                     27057+         DC    AL3(PT+15296) .                                          EM 12930030
01DB80 F0                         27058+         DC    X'F0' .                                                  EM 12900030
01DB81 01D400                     27059+         DC    AL3(PT+15360) .                                          EM 12930030
01DB84 F0                         27060+         DC    X'F0' .                                                  EM 12900030
01DB85 01D440                     27061+         DC    AL3(PT+15424) .                                          EM 12930030
01DB88 F0                         27062+         DC    X'F0' .                                                  EM 12900030
01DB89 01D480                     27063+         DC    AL3(PT+15488) .                                          EM 12930030
01DB8C F0                         27064+         DC    X'F0' .                                                  EM 12900030
01DB8D 01D4C0                     27065+         DC    AL3(PT+15552) .                                          EM 12930030
01DB90 F0                         27066+         DC    X'F0' .                                                  EM 12900030
01DB91 01D500                     27067+         DC    AL3(PT+15616) .                                          EM 12930030
01DB94 F0                         27068+         DC    X'F0' .                                                  EM 12900030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

01DB95 01D540                     27069+         DC    AL3(PT+15680) .                                          EM 12930030
01DB98 F0                         27070+         DC    X'F0' .                                                  EM 12900030
01DB99 01D580                     27071+         DC    AL3(PT+15744) .                                          EM 12930030
01DB9C F0                         27072+         DC    X'F0' .                                                  EM 12900030
01DB9D 01D5C0                     27073+         DC    AL3(PT+15808) .                                          EM 12930030
01DBA0 F0                         27074+         DC    X'F0' .                                                  EM 12900030
01DBA1 01D600                     27075+         DC    AL3(PT+15872) .                                          EM 12930030
01DBA4 F0                         27076+         DC    X'F0' .                                                  EM 12900030
01DBA5 01D640                     27077+         DC    AL3(PT+15936) .                                          EM 12930030
01DBA8 F0                         27078+         DC    X'F0' .                                                  EM 12900030
01DBA9 01D680                     27079+         DC    AL3(PT+16000) .                                          EM 12930030
01DBAC F0                         27080+         DC    X'F0' .                                                  EM 12900030
01DBAD 01D6C0                     27081+         DC    AL3(PT+16064) .                                          EM 12930030
01DBB0 F0                         27082+         DC    X'F0' .                                                  EM 12900030
01DBB1 01D700                     27083+         DC    AL3(PT+16128) .                                          EM 12930030
01DBB4 F0                         27084+         DC    X'F0' .                                                  EM 12900030
01DBB5 01D740                     27085+         DC    AL3(PT+16192) .                                          EM 12930030
01DBB8 F0                         27086+         DC    X'F0' .                                                  EM 12900030
01DBB9 01D780                     27087+         DC    AL3(PT+16256) .                                          EM 12930030

01DBBC 00000001                   27089+         DC    1A(1)    .          INVALID PAGE TABLES(END OF VSIZE)  EM 13050030
01DBC0 C9C2D4C4D6E2E5E2           27090+SYSCODE  DC    CL13'IBMDOSVS'                                  @D31DCAZ 13070031
01DBCE                            27091+PATCH    DS    0H                BEGIN OF PATCH AREA           @D33RDHH 13071033
                                  27092+*                                                              @D33RDHH 13072033
                                  27093+********************** PATCH AREA  ****************************@D33RDHH 13073033
                                  27094+*                                                              @D33RDHH 13074033
01DBCE                            27095+         DS    CL300                                           @D33RDHH 13075033
                                  27096+*                                                              @D33RDHH 13076033
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                      DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                   27098+*        REPLICA-QUEUE AND SAVED-CCB-COPY-BLOCK-QUEUE HEADERS  @D32XDRP 13082032
                                   27099+*        THESE HEADERS SHOULD BE LOCATED BEFORE THE COPY       @D32XDRP 13084032
                                   27100+*        BUFFER AREA                                           @D32XDRP 13086032
                                   27101+*                                                              @D32XDRP 13088032
                                   27102+*                                                              @D32XDRP 13090032
01DCFC                             27103+RQHDRT   DS    0F                REPLICA-Q HEADER TABLE       @D32XDRP 13092032
01DCFC 0000000000000000            27104+         DC    ((5+1)*2)AL2(0)                                @D32XDRP 13094032
                                   27105+*                                                              @D32XDRP 13102032
                                   27106+*                                                              @D32XDRP 13104032
01DD14 00000000                    27107+SAVCCBQH DC    2AL2(0)           SAVED-CCB-COPY-BLOCK-Q HEADER@D32XDRP 13106032
01DD18                             27108+FCBQ     DS    0D .              BEGIN OF COPY BLOCK CHAIN          EM 13110030
01DD18 0000000000000000            27109+         DC    2880F'0'          GENERATE COPY BUFFER AREA          EM 13170031
                                   27110+*        THE COPY BUFFER AREA CONTAINS TEMPORARY CODE WHICH IS      EM 13200030
                                   27111+*        EXECUTED AT IPL TIME FOR INITIALIZAT. OF DAT IN THE SYSTEM EM 13230030
                                   27112+*        WHEN IPL ISSUES THE FIRST SVC 33 AND FOR INITIALIZATION OF EM 13260030
                                   27113+*        THE PAGE TABLE AND THE COPY BUFFER AREA WHEN IPL IS COMPLETEEM 13290030
020A18                       1DD18 27114+         ORG   FCBQ .            RESET LOC.COUNTER TO BEGIN.OF COPY B. 13320030
                             1DD18 27115+         USING *,RF .                                               EM 13350030
01DD18 00020FB8                    27116+FINCBQ   DC    A(COPYBEND-72) .  SOMEWHERE IN LAST COPY BUFFER @DM11642 13500031
01DD1C 184F                        27117+INITBUFR LR    R4,RF .           GET START OF BUFFER AREA           EM 13560030
01DD1E 1B22                        27118+         SR    R2,R2 .                                            @D32XDRP 13570032
01DD20 1834                        27119+NEXTBUFR LR    R3,R4 .           NEXT BUFFER ADDRESS                EM 13590030
01DD22 4143 0048             00048 27120+         LA    R4,D72(R3) .      NEXT BUFFER ADDRESS                EM 13620030
01DD26 5043 0044             00044 27121+         ST    R4,D68(R3) .      STORE POINTER TO NEXT BUFFER       EM 13650030
01DD2A 4122 0001             00001 27122+         LA    R2,D1(R2)         COUNT NUMB. OF GENERATED BL. @D32XDRP 13657032
01DD2E 4920 F270       1DF88 27123+         CH    R2,H450A          MAXIM. OF 450 BLOCKS REACHED @D32XDRP 13664032
01DD32 47B0 F026       1DD3E 27124+         BNL   LASTBFR           YES, BRANCH                        @D32XDRP 13671032
01DD36 5940 F000       1DD18 27125+         C     R4,FINCBQ .       END OF BUFFER AREA REACHED             EM 13680030
01DD3A 47D0 F008       1DD20 27126+         BNH   NEXTBUFR .        NO,INIT.NEXT BUFFER                    EM 13710030
01DD3E D703 3044 3044 00044 00044 27127+LASTBFR  XC    D68(L4,R3),D68(R3) SET END OF BUFFER CHAIN INDICATOR  EM 13740032
01DD44 47F0 B126       01126 27128+         B     SVC59 .           BRANCH TO SVC 59 RTN                IB3.7 13770030
                             1DD48 27129+INITDAT  EQU   * .               ACTIVATE DIRECT ADDRESS TRANSLATION FR 13920030
01DD48 58E0 08C0             008C0 27130+         L     RE,ASVC33         SET CORRECT ADDRESS            @D34RDFG 13950034
01DD4C 58C0 08BC             008BC 27131+         L     RC,ASVCTAB         OF SVC 33                     @D34RDFG 13960034
01DD50 50EC 0084             00084 27132+         ST    RE,CMRGSVC-SVCTAB(RC) IN SVCTAB                  @D34RDFG 13970034
01DD54 5900 07E4             007E4 27133+         C     R0,EOCADDR        SIZE OF REAL STOR.EQ RSIZE     @DM11453 14010031
01DD58 4780 F0CE       1DDE6 27134+         BE    RSZOK .           YES                                    EM 14040030
                             00000 27135+         USING BBOXADR,R1                                         EM 14070030
01DD5C 5810 07D4             007D4 27136+         L     R1,ABBOX .        GET POINTER TO BBOX                EM 14100030
01DD60 4720 F0CA       1DDE2 27137+         BH    RSZMSG .          NO,EXCEEDS RSIZE SPECIFIC.             EM 14130030
01DD64 5000 07E4             007E4 27138+         ST    R0,EOCADDR        SIZE OF REAL STORE SMALLER     @DM11453 14160031
01DD68 5000 1000             00000 27139+         ST    R0,ALTSDAR .      SET ADDR.OF ALT.AREA TO END OF REALEM 14190030
01DD6C 5810 1008             00008 27140+         L     R1,ORIGVIRT .     GET ORIGIN OF VIRTUAL ADDRESS AREA EM 14220030
01DD70 1830                        27141+         LR    R3,R0 .           GET REAL END OF STORAGE            EM 14250030
01DD72 4133 0001             00001 27142+         LA    R3,D1(R3) .       CALC.ADDRESS OF FIRST EXC.BYTE     EM 14280030
01DD76 1B13                        27143+         SR    R1,R3 .           CALC.DIFFERENCE EOC-RSIZE          EM 14310030
01DD78 1841                        27144+         LR    R4,R1 .           SAVE THIS DIFF. FOR PFT CHANGE     EM 14340030
01DD7A 8830 000A             0000A 27145+         SRL   R3,D10 .          CALC.DISPL.IN PAGE TAB.FOR 1ST PAGEEM 14370030
01DD7E 5820 07C8             007C8 27146+         L     R2,ASEGT .        LOAD ADDR.OF SEGMENT TABLE         EM 14400030
01DD82 5820 2000             00000 27147+         L     R2,D0(0,R2) .     LOAD ADDR.OF PAGE TABLE            EM 14430030
01DD86 4123 2000             00000 27148+         LA    R2,D0(R3,R2) .    GET POINTER TO PAGE TABLE ENTRY    EM 14460030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

01DD8A 9280 2000      00000       27149+         MVI   D0(R2),HIGHAD .    SET INVALID ADDRESS                EM 14490030
01DD8E 9201 2001      00001       27150+         MVI   D1(R2),UNUSE .     AND UNUSED FLAG                    EM 14520030
01DD92 8810 000A            0000A 27151+         SRL   R1,D10 .           CALC.NO.OF ENTRIES IN PT TO BE INV.EM 14550030
01DD96 0610                       27152+         BCTR  R1,D0 .            SUBTRACT LENGTH OF FIRST ENTRY     EM 14580030
01DD98 0610                       27153+         BCTR  R1,D0 .                                               EM 14610030
01DD9A 1211                       27154+         LTR   R1,R1 .            MORE THAN ONE ENTRY                EM 14640030
01DD9C 4780 F0A8      1DDC0       27155+         BZ    INITAB10 .         NO                                 EM 14670030
01DDA0 4910 F26E            1DF86 27156+INITCOMP CH    R1,H256 .          MORE THAN 130 K DIFF.              EM 14700030
01DDA4 47D0 F0A2      1DDBA       27157+         BNH   INITLAST .         NO                                 EM 14730030
01DDA8 D2FF 2002 2000 00002 00000 27158+         MVC   D2(L256,R2),D0(R2) INVALIDATE PAGE TAB.ENTRIES        EM 14760030
01DDAE 4B10 F26E            1DF86 27159+         SH    R1,H256 .          GET LENGTH OF PT STILL TO BE PROC. EM 14790030
01DDB2 4122 0100            00100 27160+         LA    R2,256(R2)         POINT TO NEXT PT SECTION     @DY10960 14800034
01DDB6 47F0 F088      1DDA0       27161+         B     INITCOMP .         CLEAR NEXT PART                    EM 14820030
01DDBA 0610                       27162+INITLAST BCTR  R1,D0 .            CORRECT LENGTH FOR EX MVC          EM 14850030
01DDBC 4410 F260            1DF78 27163+         EX    R1,CLEARMVC .      CLEAR LAST ENTRIES                 EM 14880030
01DDC0 8930 0002            00002 27164+INITAB10 SLL   R3,D2 .           GET INDEX IN PAGE FRAME TABLE      EM 14910030
01DDC4 5820 07CC            007CC 27165+         L     R2,APFT .          LOAD ADDR.OF PAGE FRAME TABLE      EM 14940030
01DDC8 4123 2000            00000 27166+         LA    R2,D0(R3,R2) .     POINT TO FIRST ENTRY ABOVE EOC     EM 14970030
01DDCC 8840 000B            0000B 27167+         SRL   R4,D11 .           GET NUM.OF ENTRIES TO BE PROCESSED EM 15000030
01DDD0 D201 2004 F25A 00004 1DF72 27168+INITAB11 MVC   D4(L2,R2),CLEARPNO SET PAGE NUM.TO X'FFFF'            EM 15030030
01DDD6 4122 0008            00008 27169+         LA    R2,D8(R2) .        GET NEXT ENTRY                     EM 15060030
01DDDA 4640 F0B8            1DDD0 27170+         BCT   R4,INITAB11 .      ALL ENTRIES PROCESSED              EM 15090030
01DDDE 47F0 F0CE      1DDE6       27171+         B     RSZOK .            YES                                EM 15120030
01DDE2 92FF 1004      00004       27172+RSZMSG   MVI   MINREALP,NULL .    SET IND.FOR IPL MSG 0I48I          EM 15150030
01DDE6 B701 F250            1DF68 27173+RSZOK    LCTL  CR0,CR1,CTLR0      LOAD CNTL.REG FOR DAT        @D34UDFG 15153034
                                  27174+*                                 AND BLOCK-MULTIPLEXING CNTRL @DL29Y00 15210030
01DDEA 9604 0060      00060       27175+         OI    SCNPSW,SMDAT .     ACTIVATE DAT IN SVC NEW PSW        EM 15240030
01DDEE 5810 0778            00778 27176+         L     R1,APMGR .         GET PAGE MANAGER ADDRESS             15270030
                            082E6 27177+         USING PMGRADR,R1                                            15300030
01DDF2 9204 1019      082FF       27178+         MVI   ENABDAT+D1,SMDAT .  ENABLE DAT IN PCK FLIH            15330030
                            00000 27179+         USING CCBADR,R1                                             15360030
01DDF6 AD04 B65C      0165C       27180+         STOSM PSWMASK,SMDAT .    ACTIVATE DAT IN CURRENT PSW        FR 15390030
01DDFA 4110 00EC            000EC 27181+         LA    R1,INITPT-FCBQ .   GET DISPLACEM.OF SECOND PART OF    EM 15510030
01DDFE 4010 B12C            0112C 27182+         STH   R1,SVC59SW .       INIT.RTN AND STORE INTO CALL.SEQU. EM 15540030
01DE02 07FE                       27183+         BR    RE .               GOTO SVC33                         FR 15570030
                            1DE04 27184+INITPT   EQU   * .                INITIALIZE PAGE TABLE              EM 15600030
01DE04 D207 B126 F266 01126 1DF7E 27185+         MVC   SVC59(L8),SVC59R . RESTORE CALL.SEQU.TO SVC 59        EM 15630030
01DE0A B208 0838      00838       27186+         SPT   HTIME              SET LARGE VALUE IN CPU-TIMER @D34UDFG 15654034
01DE0E 9604 F252      1DF6A       27187+         OI    CTLR0+2,TTINTR     SET CPU-TIMER INTERRUPT BIT  @D34UDFG 15655034
01DE12 B700 F250            1DF68 27188+         LCTL  CR0,CR0,CTLR0      LOAD NEW VALUE OF CNTL.REG.0 @D34UDFG 15656034
01DE16 5860 07C8            007C8 27189+         L     R6,ASEGT .         GET POINTER TO SEGMENT TABLE       EM 15660030
01DE1A 5866 0000            00000 27190+         L     R6,D0(R6) .        GET POINTER TO PAGE TABLE          EM 15690030
01DE1E 4166 0000            00000 27191+         LA    R6,D0(R6) .                                           EM 15720030
01DE22 5830 0718            00718 27192+         L     R3,APPBEG .        LOAD END OF SUPERVISOR ADDRESS     EM 15750030
01DE26 8830 000A            0000A 27193+         SRL   R3,D10 .           CALCULATE OFFSET IN PAGE TABLE     EM 15780030
01DE2A 4850 0724            00724 27194+         LH    R5,NPART .         GET NUMBER OF PARTITIONS           EM 15810030
01DE2E 4840 F258            1DF70 27195+         LH    R4,PTE .                                              EM 15840030
01DE32 5880 07D4            007D4 27196+         L     R8,ABBOX .         LOAD POINTER TO BOUNDARY BOX       EM 15870030
                            00000 27197+         USING BBOXADR,R8 .                                          EM 15900030
01DE36 4188 0010            00010 27198+INITAB5  LA    R8,D16(R8) .       POINT TO NEXT ENTRY                EM 15930030
01DE3A D503 8000 8004 00000 00004 27199+         CLC   REALORP,REALNDP .  ORIGIN EQUAL END OF PARTITION      EM 15960030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

01DE40 4780 F144      1DE5C       27200+         BE    INITAB3 .          YES,NOTHING ALLOCATED              EM 15990030
01DE44 5820 8004            00004 27201+         L     R2,REALNDP .                                          EM 16020030
01DE48 5B20 8000            00000 27202+         S     R2,REALORP .       CALCULATE NUMBER OF ENTRIES        EM 16050030
01DE4C 8820 000B            0000B 27203+         SRL   R2,D11 .           IN PAGE TABLE                      EM 16080030
01DE50 4043 6000            00000 27204+INITAB4  STH   R4,D0(R3,R6) .     INITIALIZE PAGE TABLE ENTRY        EM 16110030
01DE54 4133 0002            00002 27205+         LA    R3,D2(R3) .        INCREASE OFFSET                    EM 16140030
01DE58 4620 F138            1DE50 27206+         BCT   R2,INITAB4 .       ALL ENTRIES PROCESSED              EM 16170030
                            1DE5C 27207+INITAB3  EQU   * .                TAKE NEXT PARTITION ENTRY IN BBOX  EM 16200030
01DE5C 4144 0010            00010 27208+         LA    R4,D16(R4) .       INCREASE STORAGE KEY               EM 16230030
01DE60 4650 F11E            1DE36 27209+         BCT   R5,INITAB5 .       ALL PARTITIONS PROCESSED           EM 16260030
01DE64 5880 07D4            007D4 27210+         L     R8,ABBOX .         GET POINTER TO BOUNDARY BOX        EM 16290030
01DE68 5840 8008            00008 27211+         L     R4,ORIGVIRT .                                         EM 16320030
01DE6C 8840 000A            0000A 27212+         SRL   R4,D10 .           CALCULATE PAGE TABLE OFFSET TO     EM 16350030
01DE70 4854 6000            00000 27213+         LH    R5,D0(R4,R6) .     R5 CONTAINS NOW X'8011'            EM 16380030
01DE74 1534                       27214+INITAB2  CLR   R3,R4 .            INITIALIZE REMAINING PT-ENTRIES    EM 16410030
01DE76 4780 F16E      1DE86       27215+         BE    INITAB9 .                                             EM 16440030
01DE7A 4053 6000            00000 27216+         STH   R5,D0(R3,R6) .                                        EM 16470030
01DE7E 4133 0002            00002 27217+         LA    R3,D2(R3) .                                           EM 16500030
01DE82 47F0 F15C      1DE74       27218+         B     INITAB2 .                                             EM 16530030
01DE86 4850 0724            00724 27219+INITAB9  LH    R5,NPART .         INITIALIZE PAGE TABLE ENTRIES      EM 16560030
01DE8A 4140 0015            00015 27220+         LA    R4,X'0015' .       BELONGING TO VIRTUAL PARTITIONS    EM 16590030
01DE8E 4188 0010            00010 27221+INITAB8  LA    R8,D16(R8) .       TAKE NEXT ENTRY IN BBOX            EM 16620030
01DE92 D503 8008 800C 00008 0000C 27222+         CLC   VIRTORP,VIRTENDP . ORIGIN EQUAL END                   EM 16650030
01DE98 4780 F19C      1DEB4       27223+         BE    INITAB6 .          YES,NOTHING ALLOCATED TO THIS PART.EM 16680030
01DE9C 5820 800C            0000C 27224+         L     R2,VIRTENDP .      CALCULATE LENGTH OF VIRTUAL PARTIT.EM 16710030
01DEA0 5B20 8008            00008 27225+         S     R2,VIRTORP .                                          EM 16740030
01DEA4 8820 000B            0000B 27226+         SRL   R2,D11 .           R2 CONTAINS NO.OFPAGE TAB.ENTRIES  EM 16770030
01DEA8 4043 6000            00000 27227+INITAB7  STH   R4,D0(R3,R6) .     INITIALIZE PAGE TAB.ENTRIES        EM 16800030
01DEAC 4133 0002            00002 27228+         LA    R3,D2(R3) .        INCREASE OFFSET                    EM 16830030
01DEB0 4620 F190            1DEA8 27229+         BCT   R2,INITAB7 .                                          EM 16860030
01DEB4 4144 0010            00010 27230+INITAB6  LA    R4,D16(R4) .       INCREASE STORAGE KEY               EM 16890030
01DEB8 4650 F176            1DE8E 27231+         BCT   R5,INITAB8 .       ALL PARTITIONS PROCESSED           EM 16920030
01DEBC 5880 07D4            007D4 27232+         L     R8,ABBOX           GET POINTER TO BOUNDARY BOX  @DL29ZCJ 16980030
01DEC0 5820 800C            0000C 27233+         L     R2,FINVIRT         END OF VIRTUAL STORAGE       @DL29ZCJ 17010030
01DEC4 BF47 07ED            007ED 27234+         ICM   R4,M7,ASVA+D1      ADDR OF SVA                  @DA11342 17020034
01DEC8 1B24                       27235+         SR    R2,R4              LENGTH OF SVA                @DA11342 17030034
01DECA 4140 0004            00004 27236+         LA    R4,X'0004'         PT ENTRY  FOR SVA PAGES      @DL29ZCJ 17070030
01DECE 8820 000B            0000B 27237+         SRL   R2,D11             NO. OF PAGE TABLE ENTRIES    @DL29ZCJ 17100030
01DED2 4043 6000            00000 27238+INITAB12 STH   R4,D0(R3,R6)      INITIALIZE PAGE TABLE ENTRIES@DL29ZCJ 17130030
01DED6 4133 0002            00002 27239+         LA    R3,D2(R3)          INCREASE OFFSET              @DL29ZCJ 17160030
01DEDA 4620 F1BA            1DED2 27240+         BCT   R2,INITAB12        BRANCH IF MORE ENTRIES       @DL29ZCJ 17190030
01DEDE 5830 0718            00718 27241+         L     R3,APPBEG .        GET START OF PROBLEM PROGRAM AERA  EM 17250030
01DEE2 5820 07E4            007E4 27242+         L     R2,EOCADDR         GET END OF REAL STORAGE      @DM11453 17280031
01DEE6 4122 0001            00001 27243+         LA    R2,D1(R2) .                                           EM 17310030
01DEEA 1B23                       27244+         SR    R2,R3 .                                               EM 17340030
01DEEC 8830 0008            00008 27245+         SRL   R3,D8 .            OFFSET INTO PAGE FRAME TABLE       EM 17370030
01DEF0 8820 000B            0000B 27246+         SRL   R2,D11 .           NO.OF PFT ENTRIES FOR Q00          EM 17400030
01DEF4 5860 07CC            007CC 27247+         L     R6,APFT .          POINT TO PAGE FRAME TABLE          EM 17430030
01DEF8 5870 F25C            1DF74 27248+         L     R7,AQ00 .          GET ADDRESS OF Q00                 EM 17460030
01DEFC 5877 0000            00000 27249+         L     R7,D0(R7) .        INSERT PAGE FRAME AT THE BOTTOM    EM 17490030
01DF00 4847 0006            00006 27250+INITAB1  LH    R4,D6(R7) .        OF Q00                             EM 17520030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

01DF04 4854 6002            00002 27251+         LH    R5,D2(R4,R6) .                                        EM 17550030
01DF08 4037 0006            00006 27252+         STH   R3,D6(R7) .                                           EM 17580030
01DF0C 4034 6002            00002 27253+         STH   R3,D2(R4,R6) .                                        EM 17610030
01DF10 4043 6006            00006 27254+         STH   R4,D6(R3,R6) .                                        EM 17640030
01DF14 4053 6002            00002 27255+         STH   R5,D2(R3,R6) .                                        EM 17670030
01DF18 4193 6000            00000 27256+         LA    R9,D0(R3,R6) .    R9 CONTAINS NO.OF PFT ENTRIES     EM 17700030
01DF1C 9200 9001      00001       27257+         MVI   D1(R9),M0 .       SET SP-BIT TO ZERO                EM 17730030
01DF20 D201 9004 F25A 00004 1DF72 27258+         MVC   D4(L2,R9),CLEARPNO SET PAGE NUM.TO X'FFFF'           EM 17760030
01DF26 1843                       27259+         LR    R4,R3 .                                             EM 17790030
01DF28 8940 0008            00008 27260+         SLL   R4,D8 .           R4= @OF PAGE FRAMES               EM 17820030
01DF2C 1B55                       27261+         SR    R5,R5 .                                             EM 17850030
01DF2E 0854                       27262+         SSK   R5,R4 .           SET REF. AND CHANGE BIT TO 0      EM 17880030
01DF30 4133 0008            00008 27263+         LA    R3,D8(R3) .       GET NEXT PFT ENTRY                EM 17910030
01DF34 4620 F1E8            1DF00 27264+         BCT   R2,INITAB1 .      ALL ENTRIES PROCESSED             EM 17940030
01DF38 5860 086C            0086C 27265+         L     R6,DISPAD         LOAD DISPATCHER ADDRESS     @DM05356 17970033
                            00000 27266+         USING PIBADR,RA                                           EM 18000030
01DF3C 9680 A004      00004       27267+         OI    PIBDATFL,TRAM .   SET ON VIRT.MODE AS FIRST TIME    EM 18030030
                                  27268+*                                FOR EOJS1                         EM 18060030
                            05E18 27269+         USING DISP,R6                                             @DM05356 18070033
01DF40 9203 600D      05E25       27270+         MVI   ENABEXIT,ENABLE . ENABLE INTERRUPTS IN DISPATCHER   EM 18090030
01DF44 182F                       27271+         LR    R2,RF             COPY BASE                         @D31AUHL 18092031
                                  27272+         DROP  RF                                                  @D31AUHL 18093031
                            1DD18 27273+         USING FINCBQ,R2         DECLARE NEW BASE                  @D31AUHL 18094031
01DF46 58E0 0778            00778 27274+         L     RE,APMGR          BASE FOR PMR                      @D31AUHL 18095031
                            082E6 27275+         USING PMGRADR,RE,RF,RD  DECLARE BASE                      @D31AUHL 18096031
01DF4A 98DF E49E            08784 27276+         LM    RD,RF,BSEADRS     LOAD BASEREGS                     @D31AUHL 18097031
01DF4E D203 D4E6 D4CE 0A7CC 0A7B4 27277+         MVC   SACONST(L4),ACONST SAVE ACONST                      @D31AUHL 18100031
01DF54 D207 D4EA D4DA 0A7D0 0A7C0 27278+         MVC   SBCONST(L8),BCONST AND BCONST, AND NPI              @D31AUHL 18105031
01DF5A D203 D4F2 D4E2 0A7D8 0A7C8 27279+         MVC   SDCONST,DCONST    AND DCONST                        @DA08738 18105433
                                  27280+         DROP  RD,RE,RF,R2       DROP BASEREGS                     @D31AUHL 18106031
                            1DD18 27281+         USING FINCBQ,RF         RESTORE ADDRESSING                @D31AUHL 18107031
01DF60 18F2                       27282+         LR    RF,R2             RESTORE BASE                      @D31AUHL 18108031
01DF62 47F0 F004      1DD1C       27283+         B     INITBUFR .        GO TO INITIALIZE COPY BUFFERS       EM 18120030
01DF68                            27284+         DS    0D                WORD BDY AL.SUFFICES IF THE ASSEM   EM 18180030
                                  27285+*                                KNOWS HOW TO DO IT                EM 18210030
01DF68 80                         27286+CTLR0    DC    B'10000000'            CTL REG.0, BYTE 0          @DL29Y00 18240030
01DF69 4000E0                     27287+         DC    X'4000E0'              CTL REG.0, BYTE 1,2,3      @DL29Y00 18270030
01DF6C 0F                         27288+CTLR1    DC    AL1(15) .         LENGTH OF SEG.TABLE               EM 18300030
01DF6D 01D7C0                     27289+         DC    AL3(STAB) .       ADDRESS OF SEGMENT TABLE          EM 18330030
01DF70 8011                       27290+PTE      DC    X'8011' .         VALUE FOR PAGE TABLE              EM 18360030
01DF72 FFFF                       27291+CLEARPNO DC    X'FFFF' .         VALUE FOR CLEARING THE PAGE NO.   EM 18390030
01DF74 00009018                   27292+AQ00     DC    A(Q00) .          ADDRESS OF QUEUE HEADER           EM 18420030
01DF78 D201 2002 2000 00002 00000 27293+CLEARMVC MVC   D2(L2,R2),D0(R2) . CLEAR PAGE TABLE ENTRIES FROM EOC UP 18450030
                                  27294+*                                TO RSIZE                          EM 18480030
01DF7E 58E0 0778            00778 27295+SVC59R   L     RE,APMGR .        SET BASE FOR PAGE MANAGER       IB3.7 18510030
01DF82 41FE B000            00000 27296+         LA    RF,0(RE,RB) .     FOR SVC 59 CALLING SEQUENCE     IB3.7 18540030
01DF86 0100                       27297+H256     DC    H'256' .                                            EM 18570030
01DF88 01C2                       27298+H450A    DC    H'450'            MAX. NUMB. OF COPY BL. GENER.@D32XDRP 18580032
01DF8A                      20A18 27299+         ORG   , .               SET LOCATION COUNTER TO END OF      EM 18600030
                                  27300+*                                GENERATED CODE                    EM 18630030
020A18                            27301+         DS    0D .              FORCE DOUBLE WORD ALIGNEMENT        EM 20220030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                            20A18 27302+NUCEND   EQU   * .                 END OF NUCLEUS                    EM 20250030
020A18                      21000 27303+         ORG   (NUCEND-SYSS00+2047)/2048*2048+SYSS00          @DM11667 20280031
                            21000 27304+COPYBEND EQU   *                   AREA CREATED BY ROUNDING UP  @DM11667 20282031
                                  27305+*                                IS USED FOR ADDITIONAL COPYBUFFS @DM11667 20290031
                            21000 27306+PPBEGIN  EQU   *-SYSS00 .          BEGIN OF PROBL.PROGR.AREA    @DM01723 21180031
                            21000 27307+EOSSPR   EQU   PPBEGIN             END OF STORAGE PROTECT               21210031
                            21000 27308+IJB$$STP EQU   EOSSPR+SYSS00                                    @DM11453 21240031
                            21000 27309+IJB$$EOS EQU   PPBEGIN+SYSS00                                   @DM11453 21270031
                                  27310+         ENTRY IJB$$EOS                                                 21300030
                                  27311+         ENTRY IJB$$STP                                                 21330030
                            21000 27312+SYSEND   EQU   PPBEGIN+SYSS00 END OF NUCLEUS PLUS PATCH AREA   @DM11453 21360031
                                  27313+1,WARNING-IF SEND ADDRESS HAD BEEN SPECIFIED BUT WAS TOO SMALL,IT HAS B
                                       EEN IGNORED.
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 27315+****     CCB DUMMY CONTROL SECTION     ****                                 21480030

000000                           27317+CCBADR   DSECT .                  COMMAND CONTROL BLOCK                    21540030
000000                           27318+CCBCNT   DS    XL2 .              RESIDUAL COUNT                           21570030
000002                           27319+CCBCOM1  DS    X .                FIRST COMMUNICATION BYTE                 21600030
000003                           27320+CCBCOM2  DS    X .                SECOND COMMUNICATION BYTE                21630030
000004                           27321+CCBSTA   DS    0XL2 .             STATUS BYTES FROM CSW                HVU 21660030
000004                           27322+CCBSTA1  DS    XL1 .              DEVICE STATUS BYTE                   HVU 21690030
000005                           27323+CCBSTA2  DS    XL1 .              CHANNEL STATUS BYTE                  HVU 21720030
000006                           27324+CCBCLS   DS    X .                LUB CLASS                                21750030
000007                           27325+CCBLNO   DS    X .                LUB NO. WITHIN CLASS                     21780030
000008                           27326+CCBCCW   DS    XL4 .              CCB ADDRESS                              21810030
00000C                           27327+CCBBY3   DS    X .                THIRD COMMUNICATION BYTE                 21840030
00000D                           27328+CCBCSWW  DS    XL3 .              CCW ADDRESS FROM CSW                     21870030
000010                           27329+CCBSENS  DS    XL8 .              USER SENSE CCW                           21900030
                                 27330+*        EXTENSION OF CCB DSECT FOR COPIED CCB                       EM 21930030
000018                           27331+CCBPIK   DS    XL2 .              KEY OF TASK                          EM 21960030
00001A                           27332+CCBFLAG  DS    X .                FLAGBIT FOR COPY INFORMATION         EM 21990030
00001B                           27333+         DS    X .                UNUSED                               EM 22020030
00001C                           27334+CCBVA    DS    A .                ADDRESSOF VIRTUAL CCB                EM 22050030
000020                           27335+CCBACB   DS    A .                ADDRESS OF CCW COPY BLOCK            EM 22080030
000024                           27336+CCBICB   DS    A .                ADDRESS OF IDAL                      EM 22110030
000028                           27337+CCBXINF  DS    XL24 .             PAGE NUMBERS WHICH HAVE BEEN FIXED   EM 22140030
000040                           27338+CCBXPTR  DS    A .                POINTER TO NEXT FIXINF EXTENSION     EM 22170030
000044                           27339+CCBNEXT  DS    A .                NEXT CCB                             EM 22200030
000048                     0003C 27340+         ORG   CCBXPTR-4          RE-DEFINITION FOR FAST-TRANSL@D32XDRP 22206032
00003C                           27341+CCBRCB   DS    A                  ADDRESS OF REPLICA           @D32XDRP 22212032
000040                           27342+CCBFPT   DS    H                  FORWARD POINTER              @D32XDRP 22218032
000042                           27343+CCBBPT   DS    H                  BACKWARD POINTER             @D32XDRP 22224032


                                 27345+*        CCW TRANSLATION CONTROL BLOCK DSECT                         EM 22260030
000000                           27346+CCWTCB   DSECT .                  CCW TRANSLATION CONTROL BLOCK        EM 22290030
000000                           27347+TCBFLAG  DS    X .                FLAGBITS                             EM 22320030
000001                           27348+ADBTAMCB DS    X .                ADDITIONAL BLOCKS NEEDED BY BTAM     EM 22350030
000002                           27349+TCBPIK   DS    Y .                TIK/PIK VALUE                        EM 22380030
000004                           27350+DEVSTPTR DS    A .                POINTER TO STAT. MOD. LIST   @DS28005 22410030
000008                           27351+DEVCDPTR DS    A .                POINTER TO CONTR. COMM. LIST @DS28005 22440030
00000C                           27352+LINEPTR  DS    A .                                                      22470030
000010                           27353+BENDPTR  DS    A .                BLOCKEND POINTER                     EM 22500030
000014                           27354+TCBACCB  DS    F .                ADDRESS OF COPIED CCB FOR CANCEL     EM 22530030
000018                           27355+IDALCNT  DS    F .                NUMBER OF FREE IDALS                 EM 22560030
00001C                           27356+DYNAREA1 DS    2F .               DYNAMIC SAVE AREA                    EM 22590030
000024                           27357+DYNAREA2 DS    2F .                                            @DS28005 22620030
00002C                           27358+DYNAREA3 DS    1F .                                            @DS28005 22650030
000030                           27359+FIXADDR  DS    1F .               ADDR OF LAST TFIX REQ.       @DS28005 22680030
000034                           27360+TCBDCB   DS    A                  POINTER TO DIDAL BLOCK CHAIN @D32XDRP 22685032
000038                           27361+DDALBLAD DS    A                  ADDRESS OF CURRENT DIDAL BLOC@D32XDRP 22690032
00003C                           27362+DDLBLCNT DS    H                  NUMBER OF DIDAL BLOCKS IN USE@D32XDRP 22695032
00003E                           27363+DIDALCNT DS    H                  NUMBER OF FREE DIDAL DWORDS  @D32XDRP 22700032
000040                           27364+DIDAWAD  DS    A                  ADDR. OF CURRENT DIDA DWORDS @D32XDRP 22702032
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000044                           27365+VCCWAD1  DS    A                 STORED VIRT CCW ADDR FOR CONT@D32XDRP 22705032
000048                           27366+SAVEREG2 DS    7F .              SAVEAREA FOR REG 2 TO REG 8        EM 22710030
000064                           27367+SAVEREG9 DS    1F .                                                 EM 22740030
000068                           27368+SAVEREGA DS    1F .                                                 EM 22770030
00006C                           27369+SAVEREGB DS    1F .                                                 EM 22800030
000070                           27370+SAVEREGC DS    1F .                                                 EM 22830030
000074                           27371+SAVEREGD DS    1F .                                                 EM 22860030
000078                           27372+SAVEREGE DS    1F .                                                 EM 22890030
00007C                           27373+SAVEREGF DS    1F .                                                 EM 22920030
000080                           27374+TCBPTR   DS    A .               POINTER TO NEXT USED TCB     @DS28005 22950030
000084                           27375+TCBEND   DS    0X .              END OF CCWTCB                   IB3.5 22980030


000000                           27377+CCWBLOCK DSECT .                 CCW COPY BLOCK                       EM 23040030
000000                           27378+CCWBL    DS    0XL72 .           TOTAL BLOCK LENGTH                   EM 23070030
000000                           27379+         DS    56X .             SPACE FOR 7 CCW                      EM 23100030
000038                           27380+TIC1     DS    X .               TIC OPCODE                           EM 23130030
000039                           27381+TIC1A    DS    AL3 .             TIC ADDRESS                          EM 23160030
00003C                           27382+VBA      DS    A .               VIRTUAL BLOCK ADDRESS                EM 23190030
000040                           27383+TIC2     DS    X .               END TIC OPCODE                       EM 23220030
000041                           27384+TIC2A    DS    AL3 .             TIC ADDRESS                          EM 23250030
000044                           27385+ANB      DS    A .               ADDRESS OF NEXT BLOCK                EM 23280030


000000                           27387+VCCWADR  DSECT  .                 VIRTUAL CCW CONTROL BLOCK            EM 23340030
000000                           27388+VCCWTOT  DS    XL8 .             FULL LENGTH OF CCW                   EM 23370030
000008                           27389+VCCWNEXT DS    X .               NEXT VIRTUAL CCW                     EM 23400030


000000                           27391+TICCCW   DSECT  .                 TIC COMMAND CONTROL BLOCK            EM 23460030
000000                           27392+TICCODE  DS    X .               TIC COMMAND CODE                     EM 23490030
000001                           27393+TICADR   DS    XL3 .             TIC ADDRESS                          EM 23520030
000004                           27394+TICLINE  DS    XL4 .             TIC LINE                             EM 23550030

                                 27396+****     RCB DUMMY CONTROL SECTION     ****                            23640030

000000                           27398+RCBADR   DSECT .                 RESOURCE CONTROL BLOCK                  23700030
000000                           27399+RCBQUE   DS    XL1 .             QUEUE BYTE                           AP 23730030
000001                           27400+         DS    XL3 .             RESERVED                             AP 23760030
000004                           27401+RCBFLG   DS    XL1 .             FLAG BYTE                            AP 23790030
000005                           27402+RCBECB   DS    XL3 .             ECB ADDRESS OF RESOURCE OWNER        AP 23820030

                                 27404+****     PUB DUMMY CONTROL SECTION     ****                            24510030

000000                           27406+PUBADR   DSECT .                 PHYSICAL UNIT BLOCK                     24570030
000000                           27407+PUBCHANN DS    XL2 .             CHANNEL AND DEVICE NUMBER               24600030
000002                           27408+PUBCHQPT DS    X .               CHQ. NO. OF FIRST REQUEST FOR PUB       24630030
000003                           27409+PUBERR   DS    X .               ERROR RETRY COUNTER OR TEB POINTER      24660030
000004                           27410+PUBDEVTY DS    X .               DEVICE TYPE CODE                        24690030
000005                           27411+PUBOPTN  DS    X .               SET MODE COMMAND OR OTHER OPTIONS       24720030
000006                           27412+PUBCSFLG DS    X .               CHANNEL SCHEDULER FLAGS                 24750030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000007                           27413+PUBJCFLG DS    X .                JOB CONTROL FLAGS                        24780030
000008                           27414+NEXTPUB  DS    X .                FIRST BYTE OF NEXT PUB ENTRY             24810030
                           00008 27415+PUBPTR   EQU   NEXTPUB            POINTER TO ORIG.PUB           @DM01647 24840030

                                 27417+****     HQ PUB DUMMY CONTROL SECTION     ****                 @DM01647 24900030

000000                           27419+HQADR    DSECT .                  PHYSICAL UNIT BLOCK           @DM01647 24960030
000000                           27420+HQCHANN  DS    XL2 .              CHANNEL AND DEVICE NUMBER     @DM01647 24990030
000002                           27421+HQCHQPT  DS    X .                CHQ.NO. OF FIRST REQU.FOR PUB@DM01647 25020030
000003                           27422+HQERR    DS    X .                ERROR RETRY COUNT.OR TEB PTR.@DM01647 25050030
000004                           27423+HQDEVTY  DS    X .                DEVICE TYPE CODE              @DM01647 25080030
000005                           27424+HQOPTN   DS    X .                SET MODE COM.OR OTHER OPTIONS@DM01647 25110030
000006                           27425+HQCSFLG  DS    X .                CHANNEL SCHEDULER FLAGS       @DM01647 25140030
000007                           27426+HQJCFLG  DS    X .                JOB CONTROL FLAGS             @DM01647 25170030
000008                           27427+HQPUBPTR DS    XL2 .              POINTER TO ORIG.PUB           @DM01647 25200030
00000A                           27428+HQPIBFL  DS    XL2 .              PIBFLAG ADDRESS               @DM01647 25230030

                                 27430+****     CHN DUMMY CONTROL SECTION     ****                            25290030

000000                           27432+CHNTBL   DSECT   .                 CHANNEL CONTROL TABLE               UR 25350030
000000                           27433+CHNTYPE  DS    X .                CONTROL BYTE                        UR 25380030
000001                           27434+         DS    X .                RESERVED                            UR 25410030
000002                           27435+CHNTNXT  DS    X                  FIRST BYTE OF NEXT ENTRY      @DL29Y00 25440030

                                 27437+****     CHQ DUMMY CONTROL SECTION     ****                            25500030

000000                           27439+CHQADR   DSECT .                  CHANNEL QUEUE ENTRY                      25560030
                           00000 27440+CHQCHAIN EQU   * .                POINTER TO NEXT ENTRY              127 25590030
000000                           27441+CHQCCBAD DS    XL4 .              CCB ADDRESS                        127 25620030
000004                           27442+CHQIDS   DS    0XL4 .             CHANNEL QUEUE IDENTIFIERS               25650030
000004                           27443+REQID    DS    X .                REQUESTOR IDENTIFIER                    25680030
000005                           27444+CHQIRSPT DS    X                  POINTER TO BLOCK CONTAINING   @DY15773 25710034
                                 27445+*                                 I/O REQUEST SPECIFIC INFO     @DY15773 25711034
000006                           27446+LUBDSP   DS    X                  RELATIVE LUB IDENTIFIER       @DY15773 25712034
                                 27447+*                                 00-0D SYSTEM LUBS             @DY15773 25713034
                                 27448+*                                 0E-FD PROGRAMMER LUBS         @DY15773 25714034
000007                           27449+TKREQID  DS    X .                TASK IDENTIFIER                         25719034


                                 27451+* DSECT FOR I/O REQUEST SPECIFIC INFORMATION BLOCK                @DY15773 25724034

000000                           27453+IRSADR   DSECT                                                     @DY15773 25728034
000000                           27454+IRSBLOCK DS    0F                                                @DY15773 25730034
000000 0700000040000006          27455+IRSSEEK  CCW   SEEK,0,CC,L6       SEEK COPIED FROM USER         @DY15773 25734034
000008 1F00000D40000001          27456+IRSSFM1  CCW   SFM,IRSSFM1+D5,CC,L1 SET FILE MASK                 @DY15773 25736034
000010 0800000000000000          27457+IRSTIC1  CCW   TIC,0,0,0           TIC TO USER CHAIN             @DY15773 25738034
000018                     00000 27458+         ORG   IRSBLOCK           ORG TO RE-DEFINE              @DY15773 25740034
000000 0700003840000006          27459+IRSEDSK  CCW   SEEK,IRSPSKAD,CC,L6 SEEK                          @DY15773 25742034
000008 3900003A60000004          27460+IRSEDSCH CCW   SEARCHA,IRSPSKAD+D2,CC+SLI,L4 SEARCH              @DY15773 25744034
000010 0800000800000000          27461+IRSEDT1  CCW   TIC,IRSEDSCH,0,0   TIC                           @DY15773 25746034
000018 1F00001D40000001          27462+IRSEDSFM CCW   SFM,IRSEDSFM+D5,CC,L1 SET FILE MASK               @DY15773 25748034
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000020 1A00002050000005           27463+IRSEDRDH CCW   RDHOM,IRSEDRDH,CC+SKIP,L5 READ HA AND SKIP      @DY15773 25750034
000028 0800000000000000           27464+IRSEDTIC CCW   TIC,0,0,0          TIC TO USER CHAIN            @DY15773 25752034
                         00030    27465+IRSEDLEN EQU   *-IRSEDSK                                       @DY15773 25754034
000030                   00000    27466+         ORG   IRSBLOCK           ORG TO RE-DEFINE             @DY15773 25756034
000000 0700003840000006           27467+IRSECFSK CCW   SEEK,IRSPSKAD,CC,L6 SEEK                        @DY15773 25758034
000008 1F00000D40000001           27468+IRSECSFM CCW   SFM,IRSECSFM+D5,CC,L1 SET FILE MASK             @DY15773 25760034
000010 1A00001070000005           27469+IRSECRDH CCW   RDHOM,IRSECRDH,CC+SLI+SKIP,L5 READ HA AND SKIP  @DY15773 25762034
000018 3100004160000005           27470+IRSECSCH CCW   SEARCH,IRSLSKAD+D2,CC+SLI,L5 SEARCH             @DY15773 25764034
000020 0800001800000000           27471+IRSECT1  CCW   TIC,IRSECSCH,0,0   TIC BACK                     @DY15773 25766034
000028 0000000070000005           27472+IRSECCW4 CCW   0,0,CC+SLI+SKIP,L5 RD COUNT OR TIC TO USER      @DY15773 25768034
000030 0800000000000000           27473+IRSECTIC CCW   TIC,0,0,0          TIC TO USER OR UNUSED        @DY15773 25770034
                         00034    27474+IRSCSWW  EQU   *-4               RELATED CCW ADDRESS          @DY20090 25771034
                         00038    27475+IRSEFLEN EQU   *-IRSECFSK                                       @DY15773 25772034
000038                   00038    27476+         ORG   ,                                               @DY15773 25774034
000038                            27477+IRSPSKAD DS    XL7               BBCCHHR PHYSICAL             @DY20090 25776034
00003F                            27478+IRSLSKAD DS    XL7               BBCCHHR LOGICAL              @DY20090 25777634
000046                            27479+IRSTYPE  DS    X                 TYPE INDICATION              @DY20090 25778434
000047                            27480+IRSCHAIN DS    X                 CHAIN POINTER                @DY20090 25778934
                         00048    27481+IRSBLEN  EQU   *-IRSBLOCK                                       @DY15773 25780034

                                  27483+****     DIRECTORY DUMMY CONTROL SECTION     ****                      25830030

000000                            27485+DIRECTRY DSECT .                 DIRECTORY ENTRY                       25890030
000000                            27486+DIRNAME  DS    CL8               DIRECTORY NAME FIELD         @DL29ZCJ 25920030
000008                            27487+DIRTTR   DS    XL3               RELATIVE TRACK, RECORD       @DL29ZCJ 25950030
00000B                            27488+DIRN     DS    XL1               NUMBER OF FOLLOWING HALFWORDS@DL29ZCJ 25980030
00000C                            27489+DIRTT    DS    XL2               NUMBER OF TEXT BLOCKS        @DL29ZCJ 26010030
00000E                            27490+DIRLL    DS    XL2               NO. OF TEXT BYTES, LAST BLOCK@DL29ZCJ 26040030
000010                            27491+DIRC     DS    XL1               FLAGS (SEE CBYTE EQUATES)    @DL29ZCJ 26070030
000011                            27492+DIRT     DS    XL1               RESERVED FOR STOW FUNCTION   @DL29ZCJ 26100030
000012                            27493+DIRPPP   DS    XL3               LOAD POINT AT LINKEDIT TIME  @DL29ZCJ 26130030
000015                            27494+DIREEE   DS    XL3               ENTRY POINT AT LINKEDIT TIME @DL29ZCJ 26160030
000018                            27495+DIRRR    DS    XL2               NUMBER OF RLD ITEMS          @DL29ZCJ 26190030
00001A                            27496+DIRR     DS    XL1               NO. OF ADDITIONAL RLD BLOCKS @DL29ZCJ 26220030
00001B                            27497+DIRAAA   DS    XL3               PARTITION START AT LINKEDIT  @DL29ZCJ 26250030
00001E                            27498+DIRK     DS    X                 CONDENSE COUNTER             @DL29ZCJ 26280030
00001F                            27499+DIRVEE   DS    XL3               ENTRY POINT OF PHASE IN SVA  @DL29ZCJ 26310030

                                  27501+****     DSECT FOR ERPIB USED BY CHANNEL CHECK HANDLER *****   @DM03776 26790030

                                  27503+* RMSR - MAPERPIB - 5745-SC-RMS - REL. 28.0                              16000028
000000                            27504+ERPIBADR DSECT                                                          20000025
000000                            27505+ERPIBCSW DS    0CL8              CHANNEL STATUS WORD                    24000025
000000                            27506+ERPIBCCW DS    F                 CCW STORED                             28000025
000004                            27507+ERPIBST1 DS    X                 FIRST STATUS BYTE                      32000025
000005                            27508+ERPIBST2 DS    X                 SECOND STATUS BYTE                     36000025
000006                            27509+ERPIBCNT DS    H                 COUNT IN CSW                           40000025
000008                            27510+ERPIBSNS DS    6X                SENSE INFORMATION                      44000025
00000E                            27511+ERPIBPUB DS    H                 PUB ADDRESS                            48000025
000010                            27512+ERPIBCQP DS    X                 CHANNEL QUEUE POINTER FROM THE PUB     52000025
000011                            27513+ERPIBCSF DS    X                 CHANNEL SCHEDULER FLAGS FROM THE PUB   56000025
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000012                           27514+ERPIBMSG DS    X                  ERPIB MESSAGE BYTE                      60000025
000013                           27515+ERPIBREQ DS    X                  ERPIB REQUESTORS ID                     64000025
000014                           27516+ERPIBFLG DS    X                  SOFTWARE FLAGS                          68000025
000015                           27517+ERPIBESW DS    3X                 EXTENDED CHANNEL STATUS WORD            72000025
                           00018 27518+ERPIBWIT EQU   *-ERPIBADR                                                   76000025

                           00080 27520+SIOB     EQU   X'80'              START I/O INSTRUCTION STORED A CSW      84000025

                                 27522+****     CCW DUMMY CONTROL SECTION     ****                              26940030

000000                           27524+CCWADR   DSECT .                    CHANNEL COMMAND WORD                    27000030
000000                           27525+CCWTOT   DS    0XL8 .               FULL CCW 8 BYTES                        27030030
                           00000 27526+CCWCODE  EQU   * .                  CCW COMMAND CODE                        27060030
000000                           27527+CCWBUF   DS    XL4 .                I/O AREA OR SEEK ADDRESS                27090030
000004                           27528+CCWCHAIN DS    X .                  CHAIN BYTE                              27120030
000005                           27529+         DS    X .                  RESERVED                                27150030
000006                           27530+CCWLNG   DS    XL2 .                LENGTH FIELD                            27180030
000008                           27531+CCWNEXT  DS    X .                  FIRST BYTE BEYOND CCW                   27210030

                                 27533+****     DIB DUMMY CONTROL SECTION     ****                              27300030

000000                           27535+DIB      DSECT                                                             27360030
000000                           27536+CURAD    DS    CL7 .                CURRENT DISK ADDRESS                    27390030
000007                           27537+KDD      DS    CL3 .                KEY AND DATA LENGTH                     27420030
00000A                           27538+ENDAD    DS    CL7 .                END ADDRESS                          VB 27450030
000011                           27539+UL       DS    CL1 .                UPPER HEAD LIMIT                        27480030
000012                           27540+LL       DS    CL1 .                LOWER HEAD LIMIT                        27510030
000013                           27541+MAXREC   DS    CL1 .                MAXIMUM NUMBER RECORDS PER TRACK     VB 27540030
000014                           27542+         DS    CL4 .                LAST 4 BYTES                         VB 27570030

                                 27544+****     ERRQUE DUMMY CONTROL SECTION     ****                           27660030

000000                           27546+ERRQUE   DSECT  .                   ERROR QUEUE ENTRY                    AC 27720030
000000                           27547+ERRQ     DS    0CL44 .              IMPLIED LENGTH 44                       27750030
000000                           27548+ERRQCSW  DS    XL8 .                SAVE AREA FOR CSW              @D34SDKS 27760034
000008                           27549+ERRQPUB  DS    XL2 .                PUB ADDRESS                    @D34SDKS 27770034
00000A                           27550+ERRQFLG  DS    X .                  ERROR FLAGS                          AC 27810030
00000B                           27551+ERRQMSG  DS    X .                  MESSAGE CODE                   @D34SDKS 27816034
00000C                           27552+ERRQDFLG DS    0XL1                 SNS/DSK TASK FLAG BYTE         @DY20398 27819034
                           00080 27553+ERRQSINV EQU   X'80'                SEEK ADDRESS IN ERROR          @DY20398 27820034
                           00040 27554+ERRQSNHA EQU   X'40'                NEED TO READ HA AND R0         @DY20398 27821034
00000C                           27555+ERRQSEK  DS    XL4 .                SEEK ADDRESS                   @D34SDKS 27822034
000010                           27556+ERRQSFLG DS    0XL1                 SNS/DSK TASK FLAG BYTE         @DY20398 27825034
000010                           27557+ERRQCCB  DS    XL4 .                CCB ADDRESS                    @D34SDKS 27828034
000014                           27558+ERRQSNS  DS    XL24 .               SENSE BYTES                    @D34SDKS 27834034

                                 27560+****     USER SAVE AREA DUMMY CONTROL SECTION     ****                   27870030

000000                           27562+SVUARA   DSECT .                    USER SAVE AREA                      435 27930030
000000                           27563+SVUPSW   DS    F .                  FIRST HALF OF PSW                   435 27960030
000004                           27564+SVUPSW2  DS    F .                  SECOND HALF OF PSW                  435 27990030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000008                           27565+SVUR00   DS    9F .              SAVE AREA FOR REGISTER 0 TO 8     435 28020030
00002C                           27566+SVUR09   DS    7F .              SAVE AREA FOR REGISTER 9 TO 15    435 28050030

                                 27568+****     LTA+PP SAVE AREA DUMMY CONTROL SECTION     ****                28110030

000000                           27570+SVEARA   DSECT .                  LTA AND PP SAVE AREA                 28170030
000000                           27571+         DS    2F .              FORMERLY USED FOR NAME               28200030
000008                           27572+SVEPSW   DS    F .               FIRST HALF OF PSW                    28230030
00000C                           27573+SVEPSW2  DS    F .               SECOND HALF OF PSW                   28260030
000010                           27574+SVER09   DS    F .               SAVE AREA FOR REGISTER 9           EM 28290030
000014                           27575+SVER0A   DS    F .               SAVE AREA FOR REGISTER 10          EM 28320030
000018                           27576+SVER0B   DS    F .               SAVE AREA FOR REGISTER 11          EM 28350030
00001C                           27577+SVER0C   DS    F .               SAVE AREA FOR REGISTER 12          46 28380030
000020                           27578+SVER0D   DS    F .               SAVE AREA FOR REGISTER 13          46 28410030
000024                           27579+SVER0E   DS    F .               SAVE AREA FOR REGISTER 14          AC 28440030
000028                           27580+SVER0F   DS    F .               SAVE AREA FOR REGISTER 15             28470030
00002C                           27581+SVER00   DS    F .               SAVE AREA FOR REGISTER 0              28500030
000030                           27582+SVER01   DS    F .               SAVE AREA FOR REGISTER 1           EM 28530030
000034                           27583+SVER02   DS    F .               SAVE ARAE FOR REGISTER 2           EM 28560030
000038                           27584+SVER03   DS    F .               SAVE AREA FOR REGISTER 3           EM 28590030
00003C                           27585+SVER04   DS    F .               SAVE ARAE FOR REGISTER 4           EM 28620030
000040                           27586+SVER05   DS    F .               SAVE AREA FOR REGISTER 5           EM 28650030
000044                           27587+SVER06   DS    F .               SAVE AREA FOR REGISTER 6           EM 28680030
000048                           27588+SVER07   DS    F .               SAVE AREA FOR REGISTER 7           EM 28710030
00004C                           27589+SVER08   DS    F .               SAVE AREA FOR REGISTER 8           EM 28740030
000050                           27590+SVJOBD   DS    D .               USED FOR JOB DURATION              KR 28770030
000058                           27591+SVEFP0   DS    D .               SAVE AREA FOR FP REGISTER 0        JK 28800030
000060                           27592+SVEFP2   DS    D .               SAVE AREA FOR FP REGISTER 2        JK 28830030
000068                           27593+SVEFP4   DS    D .               SAVE AREA FOR FP REGISTER 4        JK 28860030
000070                           27594+SVEFP6   DS    D .               SAVE AREA FOR FP REGISTER 6        JK 28890030

000078                     00050 27596+         ORG   SVJOBD .                                           KR 28950030
000050                           27597+RESETPT  DS    F .               RESET PT IN INTERRUPTED FETCH@DL29ZCJ 28980030
000054                           27598+FWSTART  DS    0F                START OF FETCH WORK AREA     @DL29ZCJ 29010030
000054                           27599+ANCSAV   DS    F                 PTR TO ANCHOR TABLE ENTRY    @DL29ZCJ 29070030
000058                           27600+CILSET   DS    0X                CORE IMAGE LIBRARY TYPE      @DL29ZCJ 29160030
000058                           27601+FCHRET   DS    F .               RETURN ADDR. OF FETCH        @DL29ZCJ 29220030
00005C                           27602+CALLSEQ  DS    0XL8              FETCH CALLING SEQUENCE       @DL29ZCJ 29250030
00005C                           27603+CALLPNAM DS    F                 POINTER TO PHASE NAME        @DL29ZCJ 29280030
000060                           27604+TXTBDRY  DS    0F                LAST BYTE OF PHASE + 1       @DL29ZCJ 29310030
000060                           27605+LISTFLAG DS    X                 FETCH OPTION FLAG            @DL29ZCJ 29340030
000061                           27606+CALLLNAM DS    XL3               POINTER TO LOCAL DIR. LIST   @DL29ZCJ 29370030
000064                           27607+FTPCIL   DS    XL3               PTR TO PCIL ENTRY IN FTTAB   @DL29ZCJ 29430030
000067                     00064 27608+         ORG   CALLLNAM+3                                       @DL29ZCJ 29520030
000064                           27609+RELFACT  DS    F                 RELOCATION FACTOR            @DL29ZCJ 29550030
000068                           27610+         DS    0F                ALIGN TO FULL WORD           @DL29ZCJ 29610030
000068                           27611+CALLNAME DS    CL8               PHASE NAME                   @DL29ZCJ 29640030
000070                           27612+ENTRYSAV DS    0XL26             REMAINDER OF DIRECTORY ENTRY @DL29ZCJ 29670030
000070                           27613+RLDSW    DS    X                 SW FOR RLD BLK IN BUFFER     @DL29ZCJ 29730030
000071                           27614+RLDADDR  DS    XL3               ADDR OF CURRENT RLD ITEM     @DL29ZCJ 29760030
000074                     00070 27615+         ORG   RLDSW                                            @DL29ZCJ 29790030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000070                           27616+ENTRYTTR DS    0XL3              STARTING TTR FOR TEXT        @DL29ZCJ 29850030
000070                           27617+         DS    XL2               TT OF TTR                    @DL29ZCJ 29880030
000072                           27618+ENTRYRN  DS    X                 R OF TTR                     @DL29ZCJ 29910030
000073                           27619+ENTRYN   DS    X                 NO. OF HALFWORDS FOLLOWING   @DL29ZCJ 29940030
000074                           27620+ENTRYTT  DS    XL2               NO. OF TEXT BLOCKS           @DL29ZCJ 29970030
000076                           27621+ENTRYLL  DS    XL2               NO. OF TEXT BYTES, LAST BLOCK@DL29ZCJ 30000030
000078                           27622+ENTRYC   DS    X                 FLAG BITS(SEE CBYTE EQUATES) @DL29ZCJ 30030030
000079                           27623+ENTRYT   DS    X                 RESERVED FOR STOW FUNCTION   @DL29ZCJ 30060030
00007A                           27624+ENTRYPPP DS    XL3               LOAD POINT AT LINKEDIT TIME  @DL29ZCJ 30090030
00007D                           27625+ENTRYEEE DS    XL3               ENTRY POINT AT LINKEDIT TIME @DL29ZCJ 30120030
000080                           27626+ENTRYRR  DS    XL2               NUMBER OF RLD ITEMS          @DL29ZCJ 30150030
000082                           27627+NCCHHR   DS    0XL5              CCHHR FOR NEXT RLD BLOCK     @DL29ZCJ 30210030
000082                           27628+ENTRYR   DS    X                 NO. OF ADDITIONAL RLD BLOCKS @DL29ZCJ 30270030
000083                           27629+ENTRYAAA DS    XL3               PART. START ADDR AT LINKEDIT @DL29ZCJ 30300030
000086                           27630+ENTRYK   DS    X                 CONDS CTR FOR DE VALIDATION  @DL29ZCJ 30330030
000087                           27631+ENTRYVEE DS    XL3               ENTRY POINT OF PHASE IN SVA  @DL29ZCJ 30360030
00008A                           27632+RCCHHR   DS    0XL5              CCHHR FOR CURRENT RLD BLOCK  @DL29ZCJ 30420030
00008A                           27633+         DS    XL2               CC                           @DL29ZCJ 30450030
00008C                           27634+RHHR     DS    XL2               HH                           @DL29ZCJ 30480030
00008E                           27635+RR       DS    X                 R                            @DL29ZCJ 30510030
00008F                           27636+         DS    X                 JUST FOR ALIGNMENT           @DL29ZCF 30540030
000090                           27637+WCCHHR   DS    0XL5              CCHHR FOR READ ROUTINE       @DL29ZCJ 30600030
000090                           27638+WCCHH    DS    0XL4              CCHH FOR READ ROUTINE        @DL29ZCJ 30630030
000090                           27639+         DS    XL2               CC                           @DL29ZCJ 30660030
000092                           27640+WHHR     DS    XL2               HH                           @DL29ZCJ 30690030
000094                           27641+WR       DS    X                 R                            @DL29ZCJ 30720030
000095                           27642+WSS      DS    X                 SECT VALUE FOR READ ROUTINE  @DL30SSM 30780030
000096                           27643+RSS      DS    X                 SECT VALUE FOR RLD READ RTN  @DL30SSM 30810030
000097                           27644+NSS      DS    X                 SECT VALUE FOR NEXT RLD      @DL30SSM 30840030
000098                           27645+FWEND    DS    0X                END OF FETCH WORK AREA       @DL29ZCJ 30900030
000098                    000D4  27646+         ORG   SVJOBD+TCBEND-CCWTCB   POINT BEHIND CCWTCB    @D32XDRP 30930032
0000D4                           27647+SAVRAID  DS    X .               SAVE LOC.FOR CURRENT ACCOUNT.ID IB3.7 30960030
000000                           27648+SPIBADR  DSECT .                                              EM 30990030
000000                           27649+SPIBFLG  DS    X .               PIBFLAG FOR A SYSTEM TASK      EM 31020030



                                 27652+****     PIB DUMMY CONTROL SECTION     ****                    31110030

000000                           27654+PIBADR   DSECT .                  PROGRAM INFORMATION BLOCK       31170030
000000                           27655+PIBFLG   DS    X .               PIBFLAG                         31200030
000001                           27656+PIBCNCL  DS    X .               CANCEL CODE                     31230030
000002                           27657+PIBLOGID DS    XL2 .             SYSLOG IDENTIFIER               31260030
000004                           27658+PIBDATFL DS    0X .              PIB DAT FLAGS                  EM 31290030
000004                           27659+PIBSAVE  DS    XL4 .             ADDRESS OF SAVE AREA            31320030
                          00008  27660+ARFLG    EQU   PIBADR+8 .        FLAG BYTE IN AR PIB           435 31350030
000008                           27661+PIBRID   DS    0X .              INDICATES SV-SERVICE TASK OWNS  EM 31380030
000008                           27662+PIBSAV2  DS    XL4 .             ADDRESS OF SYSTEM SAVE AREA    EM 31410030
00000C                           27663+PIBASS   DS    X .               PIB ASSIGN FLAGS                31440030
00000D                           27664+PIBLUBID DS    X .               USER LUB INDEX                  31470030
00000E                           27665+PIBLUBNO DS    X .               NUMBER OF USER LUBS             31500030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00000F                            27666+PIBFLG2  DS    X .                MORE FLAGS                            31530030

000010                      00000 27668+         ORG   PIBADR .           PIB EXTENSION                         31590030
000000                            27669+PIBCOMRA DS    XL2 .              COMMUNICATION REGION ADDRESS          31620030
000002                            27670+SYSLUBX  DS    XL2 .              SYSTEM LUB INDEX                   EM 31650030
000004                            27671+INTINFO  DS    XL4 .              INTERRUPTION INFORMATION          126 31680030
                            00007 27672+SVCIC    EQU   INTINFO+3 .        SVC INTERR. CODE             @DS28005 31710030
000008                            27673+PIBECB   DS    XL4 .              ECB ADDRESS FOR SUBTASK            AP 31740030
00000C                            27674+PIBPIK   DS    XL2 .              PIK                                AP 31770030
00000E                            27675+         DS    XL1 .              RESERVED                     @D31DCAZ 31774031
00000F                            27676+PIBFLG3  DS    XL1                EXTENSION FLAGS              @D31DCAZ 31776031
                            00010 27677+ACLOSE   EQU   X'10'              VSAM AUTOM CLOSE IN PROCESS  @D31DCAZ 31778031
                            00004 27678+PIBSVCK  EQU   X'04'              SVC SCREENING FLAG           @D33PADO 31828033
                            00001 27679+PIBXECB  EQU   X'01' .            TASK USES XECB TABLE         @D34XDJO 31829234

                            00080 27681+TIMERSET EQU   X'80'              IN SUPFLAG,TIMER INT.SET     @D34UDFR 31841534
                            00040 27682+ENDSEP   EQU   C' '               END OF LIST MARKER           @D34UDFR 31841634
                            00040 27683+OWNTIMER EQU   X'40'              IN PCBFLAG,TTIMER OWNER PART.@D34UDFR 31842134

000000                            27685+PCBADR   DSECT                     PARTITION CONTR.BLOCK        @D34UDFR 31842334
000000                            27686+PCBFLAG  DS    X                  FLAG BYTE                    @D34UDFR 31842434
000001                            27687+PCBID    DS    X                  PART.IDENTIFIER              @D34UDFR 31842534
000002                            27688+PCBTNR   DS    H                  NUMBER OF TASKS OF PART.     @D34UDFR 31842634
000004                            27689+PCBCHN   DS    F                  PRTY-CHAIN (LOW TO HIGH)     @D34UDFR 31843934

                                  27691+****     SYSTEM TASK BLOCK DUMMY CONTROL SECTION     ****                31860030

000000                            27693+SYSBLKS  DSECT .                  SYSTEM TASK BLOCK                     31920030
000000                            27694+SYSPIBFL DS    H .                PTR.TO SYSTEM TASK PIBFLAG         EM 31950030
000002                            27695+SYSPIK   DS    CL1 .              PIK OF SERVICED USER TASK          RH 31980030
000003                            27696+         DS    CL1 .              RESERVED                           EM 32010030
                            00004 27697+SYSJAID  EQU   * .                                                      32040030
000004                            27698+SYSAVAR  DS    CL4 .              SYSTEM SAVE AREA ADDRESS           RH 32070030

                                  27700+****     RESOURCE USAGE RECORD DUMMY CONTROL SECTION     ****       BSW 32160030

000000                            27702+RURADR   DSECT .                  RESOURCE USAGE RECORD (RUR)       BSW 32220030
000000                            27703+RUR      DS    0F .                                                 BSW 32250030
000000                            27704+RURFLAGS DS    X .                ACCESS FLAGS                      BSW 32280030
                            00010 27705+RURW     EQU   X'10' .            SOME TASK WAITING FOR RESRCE @DF00913 32310030
                            00004 27706+RURS     EQU   X'04' .            RESRCE SHARED AMONG OWNERS (S-BIT)BSW 32340030
                            00002 27707+RURE     EQU   X'02' .            RESOURCE ALLOCATED EXCLUSIVELY    BSW 32370030
                                  27708+*                                    TO ONE OWNER (E-BIT)            BSW 32400030
                            00001 27709+RURX     EQU   X'01' .            ON IF RURS OR RURE IS ON (X-BIT)  BSW 32430030
000001                            27710+RURJC    DS    X .                OWNER BITS CORR TO PARTITNS  @DF00913 32460030
                                  27711+*                                    X'70'-X'00' (LEFT TO RIGHT@DF00913 32490030
                                  27712+*                                    - USED BY 'USE ..,JC'     @DF00913 32520030
000002                            27713+RUROWN   DS    XL2 .              OWNER BITS CORRESPONDING TO TASKS BSW 32550030
                                  27714+*                                    X'F0' TO X'00' (LEFT TO RIGHT) BSW 32580030
                            00004 27715+RURLEN   EQU   *-RUR .            LENGTH OF A RUR STEM         @D31DCAZ 32584031
000004                            27716+RURRESN  DS    CL8                RESOURCE NAME                @D31DCAZ 32588031
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           0000C 27717+NRURLG   EQU   *-RUR              LENGTH OF A NAMED RUR        @D31DCAZ 32590031

                                 27719+****     USE/RELEASE PARAMETER LIST ENTRY DSECT     ****            BSW 32670030

000000                           27721+USEPARM  DSECT .                  USE/RELEASE PARAMETER LIST ENTRY  BSW 32730030
000000                           27722+         DS    0H .                                                 BSW 32760030
000000                           27723+USELISTL DS    AL1 .             NR OF ENTRIES IN PARAMETER LIST   BSW 32790030
                                 27724+*                                   FOLLOWING CURRENT ENTRY        BSW 32820030
000001                           27725+USEFLAGS DS    X .               TYPE OF RESRCE CONTROL REQUESTED  BSW 32850030
                           00080 27726+USEW     EQU   X'80' .           REQUESTOR WAITS IF RES UNAVAILABLEBSW 32880030
                           00040 27727+USEJ     EQU   X'40' .           JOB CONTROL REQUEST (USE JC) @DF00913 32910030
                           00002 27728+USES     EQU   X'02' .           REQ WANTS SHARED CONTROL OF RES   BSW 32940030
                           00001 27729+USEE     EQU   X'01' .           REQ WANTS EXCLUSIVE CONTRL OF RES BSW 32970030
000002                           27730+USERESCD DS    AL2 .             RESOURCE CODE                     BSW 33000030
                           00004 27731+USEPARML EQU   *-USEPARM .       LENGTH OF A PARAMETER LIST ENTRY  BSW 33030030

                                 27733+* CROSS PARTITION ECB DUMMY SECTION                              @D34XDJO 33034034

000000                           27735+XECBDSEC DSECT                    LAYOUT OF XECB SLOT           @D34XDJO 33038034
000000                           27736+XECBNAME DS    XL8 .              XECB NAME                     @D34XDJO 33040034
000008                           27737+XECBTYPE DS    XL1 .              TYPE CODE                     @D34XDJO 33042034
000009                           27738+XECBADDR DS    AL3 .              XECB ADDRESS                  @D34XDJO 33044034
00000C                           27739+XECBOWNR DS    XL2 .              OWNER TIK/PIK                 @D34XDJO 33046034
00000E                           27740+XECBWPTK DS    XL2 .              ID OF EXCLUSIVE POSTER        @D34XDJO 33048034
                           00010 27741+XECBLENG EQU   *-XECBDSEC .       LENGTH OF SLOT                @D34XDJO 33050034

                                 27743+****     CHANNEL BUCKET DUMMY CONTROL SECTION     ****               33120030

000000                           27745+REGADR   DSECT .                  I/O REGISTER SAVE AREA            33180030
000000                           27746+FIRSTPUB DS    F .                ADDRESS OF FIRST PUB ON CHANNEL   33210030
000004                           27747+SAVRG1   DS    F .                SAVE AREA FOR REGISTER 1          33240030
000008                           27748+SAVRG2   DS    F .                SAVE AREA FOR REGISTER 2          33270030
00000C                           27749+SAVRG3   DS    F .                SAVE AREA FOR REGISTER 3          33300030
000010                           27750+         DS    2F .               SAVE AREA FOR REGISTERS 4 AND 10  33330030

                                 27752+****     ACCT DUMMY CONTROL SECTION     ****                       33420030

000000                           27754+ACCTABLE DSECT .                  ACCT TABLE DSECT                GS 33480030
000000                           27755+ACCTWK1  DS    F .                WORK AREAS                      GS 33510030
000004                           27756+ACCTWK2  DS    F .                *                               GS 33540030
000008                           27757+ACCTSVPT DS    F .                SAVE AREA FOR JOB CARD POINTER  GS 33570030
00000C                           27758+ACCTPART DS    X .                PARTITION SWITCH KEY            GS 33600030
00000D                           27759+ACCTRES2 DS    X .                RESERVED                        GS 33630030
00000E                           27760+ACCTLEN  DS    H .                LENGTH OF SIO PART OF TABLE     GS 33660030
000010                           27761+ACCTLOAD DS    3H .               INST TO SET LABEL AREA          GS 33690030
000016                           27762+ACCTRES3 DS    H .                RESERVED                        GS 33720030
000018                           27763+ACCTLADD DS    A .                ADDR OF LABEL AREA              GS 33750030
00001C                           27764+ACCTCPUT DS    F .                PARTITION CPU TIME COUNTER      GS 33780030
000020                           27765+ACCTOVHT DS    F .                OVERHEAD CPU TIME COUNTER       GS 33810030
000024                           27766+ACCTBNDT DS    F .                WAIT TIME COUNTER               GS 33840030
000028                           27767+ACCTSVJN DS    CL8 .              SAVE AREA FOR JOB NAME          GS 33870030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000030                           27768+ACCTJBNM DS    CL8 .             JOB NAME                                GS 33900030
000038                           27769+ACCTUSRS DS    CL16 .            USER INFORMATION                        GS 33930030
000048                           27770+ACCTPTID DS    CL2 .             PARTITION ID                            GS 33960030
00004A                           27771+ACCTCNCL DS    XL1 .             CANCEL CODE                             GS 33990030
00004B                           27772+ACCTYPER DS    CL1 .             TYPE OF RECORD                          GS 34020030
00004C                           27773+ACCTDATE DS    CL8 .             DATE                                    GS 34050030
000054                           27774+ACCTSTRT DS    PL4 .             START TIME                              GS 34080030
000058                           27775+ACCTSTOP DS    PL4 .             STOP TIME                               GS 34110030
00005C                           27776+ACCTRES  DS    F .               RESERVED                                GS 34140030
000060                           27777+ACCTEXEC DS    CL8 .             PHASE NAME                              GS 34170030
000068                           27778+ACCTHICR DS    F .               HIGH CORE                               GS 34200030
00006C                           27779+ACCTIMES DS    3F .              EXECUTION BREAKDOWN TIMES               GS 34230030
000078                           27780+ACCTSIOS DS    XL6 .             SIO TABLE                               GS 34290030


000000                           27782+SCVRTP   DSECT                        CALLER'S PARAMETERS     @DL30SSM 34410030
000000                           27783+SCVRTP00 DS    0CL4                    PARMETER REGISTER 0     @DL30SSM 34440030
000000                           27784+SCVRTPDL DS    H                       DATA LENGTH             @DL30SSM 34470030
000002                           27785+SCVRTPKL DS    AL1                     KEY LENGTH              @DL30SSM 34500030
000003                           27786+SCVRTPRN DS    AL1                     RECORD NUMBER           @DL30SSM 34530030
000004                           27787+SCVRTP01 DS    0CL4                    PARMETER REGISTER 1     @DL30SSM 34560030
000004                           27788+SCVRTPDT DS    AL1                     DEVICE TYPE CODE        @DL30SSM 34590030
000005                           27789+         DS    CL3                     UNUSED                  @DL30SSM 34620030


000000                           27791+DDTENTRY DSECT                       DASD DEVICE TAB ENTRY   @DL30SSM 34680030
000000                           27792+DDTRPS   DS    0CL8                  RPS CHARACTERISTICS     @DL30SSM 34710030
000000                           27793+DDTTC    DS    H                     TRACK CAPACITY          @DL30SSM 34740030
000002                           27794+DDTR0    DS    H                     R0 OVERHEAD             @DL30SSM 34770030
000004                           27795+DDTBO    DS    H                     BLOCK OVERHEAD          @DL30SSM 34800030
000006                           27796+DDTKO    DS    AL1                   KEYED BLOCK OVERHEAD    @DL30SSM 34830030
000007                           27797+DDTNS    DS    AL1                   NUMBER SECTORS PER TRK  @DL30SSM 34860030


                                 27799+* RMSR - MAPPUB2 - 5745-SC-RMS - REL. 34.0                 @D34DDAZ 03050034
000000                           27800+PUB2ADR  DSECT                                                     05000027
000000                           27801+P2USAGE  DS    XL3 .                USAGE COUNT (NUMBER OF NON-ERP SIO)  06000027
000003                           27802+P2FLAGS  DS    XL1 .                FLAG BYTE COMMON TO ALL PUB2 ENTRIES 07000027
                        00080    27803+P2INTSM  EQU   X'80' .              DEVICE IS IN INTENSIVE MODE          08000027
                        00040    27804+P2DIAGM  EQU   X'40' .              DEVICE IS IN DIAGNOSTIC MODE         09000027
                        00020    27805+P2NORCM  EQU   X'20' .              NO RECORDING MODE                    10000027
                        00010    27806+P2STAT2  EQU   X'10' .              CALL STATISTICS TRANSIENT 2          11000027
                        00008    27807+P2NAMEF  EQU   X'08' .              USE PUB2 NAME COMPLETION FIELD       12000027
                        00004    27808+P2OPEN   EQU   X'04' .              VOLUME OPENED ON THIS DEVICE         13000027
                        00002    27809+P2RES3   EQU   X'02' .              RESERVED FOR FUTURE USE              14000027
                        00001    27810+P2RES4   EQU   X'01' .              RESERVED FOR FUTURE USE              15000027
000004                           27811+P2LIMIT  DS    XL1 .                CE MODE LIMIT BYTE                   16000027
000005                           27812+P2BBMASK DS    XL1 .                CE MODE BYTE/BIT MASK                17000027
                        00006    27813+PUB2EXT  EQU   * .                  END OF BASIC PUB2                    18000032
                                 27814+*                                                                   19000027
                                 27815+*    UNIT RECORD AND UNSUPPORTED DEVICE EXTENSION                   20000032
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                                  27816+*                                                                  21000027
000006                      00006 27817+         ORG   PUB2EXT             POINT TO PUB2 END               22000032
                            00006 27818+P2UNITX  EQU   *                                                  23000027
000006                            27819+SDRUNITR DS    XL6 .               SDR COUNTERS FOR UNIT RECORD DEVICES 24000027
                            0000C 27820+P2UNITE  EQU   * .                 END OF UNIT RECORD PUB2         25000032
                                  27821+*                                                                  26000027
                                  27822+*              3540  DISKETTE EXTENSION                    @DL29R01 26050029
                                  27823+*                                                          @DL29R01 26100029
00000C                      00006 27824+         ORG   PUB2EXT             POINT TO PUB2 END       @DL29R01 26150032
                            00006 27825+P23540X  EQU  *                                           @DL29R01 26200029
000006                            27826+SDR3540  DS    XL8                 SDR COUNTERS            @DL29R01 26250032
00000E                            27827+P23540R  DS    XL2                 RESERVED FOR FUTURE USE @DL29R01 26300032
                            00010 27828+P23540E  EQU   *                   END OF PUB2             @DL29R01 26350032
                                  27829+*                                                          @DL29R01 26400029
                                  27830+*        3211 PRINTER EXTENSION                                    27000032
                                  27831+*                                                                  28000027
000010                      00006 27832+         ORG   PUB2EXT             POINT TO PUB2 END               29000032
                            00006 27833+P23211X  EQU   *                                                  30000027
000006                            27834+SDR3211  DS    XL6 .               SDR COUNTER AREA                31000027
                            0000C 27835+P23211E  EQU   * .                 END OF 3211 PUB2                32000032
                                  27836+*                                                          @D34YDFS 32050034
                                  27837+*        APRT PRINTER EXTENSION                            @D34YDAZ 32100034
                                  27838+*                                                          @D34YDFS 32150034
00000C                      00006 27839+         ORG   PUB2EXT             POINT TO PUB2 END       @D34YDFS 32200034
                            00006 27840+P2APRTX  EQU   *                                           @D34YDAZ 32250034
000006                            27841+PB2SDR1  DS    XL1                 06 CHANNEL DATA CHECKS  @D34YDBH 32250734
000007                            27842+PB2SDR2  DS    XL1                 07 CHANNEL CONTROL CHECKS @D34YDBH 32251334
000008                            27843+PB2SDR3  DS    XL1                 08 INTERFACE CONTROL CHECKS @D34YDBH 32251934
000009                            27844+PB2SDR4  DS    XL1                 09 CONT FORMS STACKER   @D34YDBH*32252534
                                                                             MISFOLDS            @D34YDBH 32253134
00000A                            27845+PB2SDR5  DS    XL1                 10 BURSTER TRIMMER JAMS @D34YDBH 32253734
00000B                            27846+PB2SDR6  DS    XL1                 11 NO BURST CHECKS      @D34YDBH 32255634
00000C                            27847+PB2SDR7  DS    XL1                 12 BURSTER-STACKER JAMS @D34YDBH 32256034
00000D                            27848+PB2SDR8  DS    XL1                 13 SDR8: *              @D34YDBH 32257734
00000E                            27849+PB2SDR9  DS    XL1                 14 SDR9: *              @D34YDBH 32258434
00000F                            27850+PB2DFLG  DS    XL1                 15 DEFAULT FLAGS        @D34YDBH 32259134
                          00080   27851+PB2DBRST EQU   X'80'                 * DEFAULT SPEC.=BURST   @D34YDBH 32259834
                          00040   27852+PB2DDCHK EQU   X'40'                 * DFLT SPEC.=ALLOW DATA CHK@D34YDBH 32260534
                                  27853+*        EQU   X'00'                 * DFLT SPEC.=BLOCK DATA CHK@D34YDBH 32261234
000010                            27854+PB2DFCB  DS    XL4                 16 DEFAULT FCB ID       @D34YDBH 32261934
000014                            27855+PB2DCHAR DS    XL4                 20 DEFAULT CHAR ARRANGEMENT @D34YDBH*32262634
                                                                             TABLE ID            @D34YDBH 32263334
000018                            27856+PB2DMDFY DS    XL4                 24 DFLT COPY MODIFIC. ID @D34YDBH 32264034
00001C                            27857+PB2DFLSH DS    XL4                 28 DEFAULT FORMS OVERLAY @D34YDBH*32264734
                                                                             FRAME ID            @D34YDBH 32265434
000020                            27858+PB2DFORM DS    XL4                 32 DFLT PAPER FORMS ID  @D34YDBH 32266134
000024                            27859+PB2WCGMS DS    XL4                 36 CHAR.SETS PRESENTLY LOAD @D34YDBH 32266834
000028                            27860+PB2WMOD  DS    XL1                 40 WCGM# WITH MODIFIED  @D34YDBH*32267434
                                                                             CHARACTER SETS      @D34YDBH 32268034
                          00080   27861+PB2WMOD0 EQU   X'80'                 * WCGM0 CONTAINS A MODIFIED@D34YDBH*32268634
                                                                             CHARACTER SET       @D34YDBH 32269234
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00040 27862+PB2WMOD1 EQU   X'40'                * WCGM1 CONT. A MOD.CHR SET@D34YDBH 32269834
                           00020 27863+PB2WMOD2 EQU   X'20'                * WCGM2 CONT. A MOD.CHR SET@D34YDBH 32270434
                           00010 27864+PB2WMOD3 EQU   X'10'                * WCGM3 CONT. A MOD.CHR SET@D34YDBH 32271034
000029                           27865+PB2FLAG1 DS    XL1                41 FIRST BYTE OF FLAGS      @D34YDBH 32272434
                           00040 27866+PB2INIT  EQU   X'40'                * INIT=Y WAS SPECIFIED      @D34YDBH 32273134
                                 27867+*        EQU   X'00'                * INIT=N WAS SPECIFIED OR   @D34YDBH*32273834
                                                                             K/W OMITTED              @D34YDBH 32274534
                           00030 27868+PB2BURST EQU   X'30'                * BURST=YES WAS SPECIFIED   @D34YDBH 32275234
                           00010 27869+PB2BRSTN EQU   X'10'                * BURST=NO WAS SPECIFIED    @D34YDBH 32275934
                                 27870+*        EQU   X'00'                * BURST K/W WAS OMITTED     @D34YDBH 32276634
                           00008 27871+PB2UDCHK EQU   X'08'                * DCHK=U WAS SPECIFIED      @D34YDBH 32277334
                                 27872+*        EQU   X'00'                * DCHK=B OR K/W WAS OMITTED@D34YDBH 32278034
                           00004 27873+PB2TRCY  EQU   X'04'                * TRC=Y WAS SPECIFIED       @D34YDBH 32278734
                           00002 27874+PB2MARK  EQU   X'02'                * SEP=M                     @D34YDBH 32279434
                           00001 27875+PB2OFFST EQU   X'01'                * SEP=O                     @D34YDBH 32280134
00002A                           27876+PB2FLAG2 DS    XL1                42 SECOND BYTE OF FLAGS      @D34YDBH 32280834
                           00080 27877+PB2FCBV  EQU   X'80'                * FCB VERIFIC.WAS REQUESTED@D34YDBH 32281534
                           00040 27878+PB2QSPRT EQU   X'40'                * PRESENT PRT SETUP WAS REQ@D34YDBH 32282234
                           00020 27879+PB2DFLT  EQU   X'20'                * DEFAULT PRT SETUP WAS REQ@D34YDBH 32282934
00002B                           27880+         DS    XL1                43 RESERVED                  @D34YDBH 32283634
00002C                           27881+PB2FCB   DS    XL4                44 CURRENTLY LOADED FCB ID   @D34YDBH 32284334
000030                           27882+PB2CHAR1 DS    XL4                48 ID OF 1ST CAT CURRENTLY   @D34YDBH*32285034
                                                                             LOADED                   @D34YDBH 32285734
000034                           27883+PB2CHAR2 DS    XL4                52 ID OF 2ND CAT CURR.LOADED@D34YDBH 32286434
000038                           27884+PB2CHAR3 DS    XL4                56 ID OF 3RD CAT CURR.LOADED@D34YDBH 32287134
00003C                           27885+PB2CHAR4 DS    XL4                60 ID OF 4TH CAT CURR.LOADED@D34YDBH 32287834
000040                           27886+PB2CPMOD DS    XL4                64 ID OF COPY MOD CURRENTLY @D34YDBH*32288534
                                                                             LOADED                   @D34YDBH 32289234
000044                           27887+PB2CMCHR DS    XL4                68 ID OF CAT USED WHEN       @D34YDBH*32289934
                                                                             LOADING THE CURRENT COPY @D34YDBH*32290634
                                                                             MOD INTO THE PRINTER     @D34YDBH 32291334
000048                           27888+PB2FORMS DS    XL4                72 ID OF PAPER FORM          @D34YDBH*32292034
                                                                             CURRENTLY LOADED         @D34YDBH 32292734
00004C                           27889+PB2FLASH DS    XL4                76 ID OF CURRENT FORMS       @D34YDBH*32293434
                                                                             OVERLAY FRAME            @D34YDBH 32294134
000050                           27890+PB2CPYGP DS    XL8                80 EIGHT COPY GROUP COUNT    @D34YDBH*32294834
                                                                             LAST RECEIVED BY SETPRINT@D34YDBH 32295534
000058                           27891+PB2CINDX DS    XL1                88 COPY GRP ID PRESENTLY     @D34YDBH*32296234
                                                                             SET IN THE PRINTER       @D34YDAZ 32296934
000059                           27892+PB2FLSHC DS    XL1                89 FLASH COUNT PRESENTLY     @D34YDBH*32297634
                                                                             SET IN THE PRINTER       @D34YDAZ 32298334
00005A                           27893+         DS    XL2                90 RESERVED                  @D34YDBH 32299034
                         0005C 27894+P2APRTE  EQU   * .                  END OF APRT PUB2             @D34YDAZ 32350034
                               27895+*                                                                       33000034
                               27896+*        DISK DEVICE EXTENSION                                          34000032
                               27897+*                                                                       35000027
00005C                   00006 27898+         ORG   PUB2EXT              POINT TO PUB2 END                   36000032
                         00006 27899+P2DISKX  EQU   *                                                       37000027
000006                           27900+P2DFLG   DS    XL1 .                DISK FLAGS                          38000027
                         00080 27901+P2SDERRQ EQU   X'80' .              SOFT DASD ERROR IS QUEUED           39000027
                         00040 27902+P2DLOG   EQU   X'40' .              ERP REQUESTS ERROR LOGGED           40000027
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000007                           27903+P2DRES   DS    XL2 .              RESERVED FOR EXPANSION                41000027
000009                           27904+P2DMOD   DS    XL1 .              PHYSICAL MODULE IDENTIFIER            42000027
00000A                           27905+P2DVOL   DS    XL6 .              VOLUME SERIAL NUMBER                  43000027
000010                           27906+SDRDISK  DS    XL8 .              DISK DEVICE SDR COUNTERS              44000027
                          00018  27907+P2DISKE  EQU   * .                END OF DISK PUB2                      45000032
                                 27908+*                                                                    46000027
                                 27909+*    3330 PUB2 EXTENSION                                             47000032
                                 27910+*                                                                    48000027
000018                    00010  27911+         ORG   SDRDISK            POINT TO DISK DEVICE COUNTER          49000032
000010                           27912+P23330CR DS    XL16 .             3330 COUNTERS                         50000027
                          00020  27913+P23330E  EQU   * .                END OF 3330 PUB2                      51000028
                                 27914+*                                                          @DL2W704 51050029
                                 27915+*     3340 PUB2 EXTENSION                                  @DL2W704 51100029
                                 27916+*                                                          @DL2W704 51150029
000020                    00010  27917+         ORG SDRDISK                                                 52000029
000010                           27918+P23340CR DS    0XL16              NO COUNTERS FOR 3340      @DL2W704 52000429
                          00010  27919+P23340E  EQU   *                  END OF 3340 PUB2          @DL2W704 52000829
                                 27920+*                                                                    52002032
                                 27921+*     3350 PUB2 EXTENSION                                  @D34DDAZ 52003034
                                 27922+*                                                          @D34DDAZ 52004034
000010                    00010  27923+         ORG    SDRDISK                                      @D34DDAZ 52005034
000010                           27924+P23350CR DS     XL16               3350 COUNTERS             @D34DDAZ 52006034
                          00020  27925+P23350E  EQU    *                  END OF 3350 PUB2          @D34DDAZ 52007034
                                 27926+*                                                          @D34DDAZ 52008034
                                 27927+*     TAPE DEVICE EXTENSION                                          52010032
                                 27928+*                                                                    52020029
000020                    00006  27929+         ORG PUB2EXT                                                 52030029
                                 27930+*                                                                    52060029
                          00006  27931+P2TAPEX  EQU   *                                                    53000027
000006                           27932+P2TNAME  DS    XL2 .              NAME OF ERP THAT WANTS CONTROL        54000027
000008                           27933+P2TFLG1  DS    XL1 .              TAPE FLAGS 1                          55000027
                          00040  27934+P2TUNSOL EQU   X'40' .             UNSOLICITED INTERRUPT FOR TAPES       55050032
                          00020  27935+P2TERP   EQU   X'20' .             ERP IS IN CONTROL                     56000027
                          00010  27936+P2TREPO  EQU   X'10' .             ERP REQUESTS REPOSITIONING            57000027
                          00008  27937+P2TIEORG EQU   X'08' .             USE ORIGINAL TIE BYTE                 58000027
                                 27938+*    IF 'P2TIEORG ' BIT IS OFF THE OPPOSITE TIE IS USED               59000027
                          00004  27939+P2TECPT  EQU   X'04' .             INTERCEPT NEXT SIO REQUEST            60000027
                          00002  27940+P2TROR   EQU   X'02' .             ERP READ OPPOSITE REQUEST             61000027
                          00001  27941+P2TREST  EQU   X'01' .             RESTART USERS CCW CHAIN               62000027
000009                           27942+P2TFLG2  DS    XL1 .              TAPE FLAGS 2                          63000027
00000A                           27943+P2TFLG3  DS    XL1 .              TAPE FLAGS 3                          64000027
00000B                           27944+P2TEMPR  DS    XL1 .              TEMPORARY READ COUNT                  65000027
00000C                           27945+P2TEMPW  DS    XL1 .              TEMPORARY WRITE COUNT                 66000027
00000D                           27946+P2NOISE  DS    XL1 .              NOISE RECORD COUNT                    67000027
00000E                           27947+P2ERG    DS    XL2 .              ERASE GAP COUNT                       68000027
000010                           27948+P2CLEAN  DS    XL2 .              CLEANER ACTION COUNTS                 69000027
000012                           27949+P2PRD    DS    XL1 .              PERMANENT READ ERRORS                 70000027
000013                           27950+P2PWT    DS    XL1 .              PERMANENT WRITE ERRORS                71000027
000014                           27951+P2ORGTIE DS    XL1 .              TIE ORIGINAL DIRECTION                72000027
000015                           27952+P2OPPTIE DS    XL1 .              TIE OPPOSITE DIRECTION                73000027
000016                           27953+P2ECTR0  DS    XL1 .              ERP COUNTER                           74000027
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000017                           27954+P2ECTR1  DS    XL1 .              ERP COUNTER                              75000027
000018                           27955+P2TWORKA DS    XL8 .              ERP WORK AREA                            76000027
000020                           27956+P2TVOL   DS    XL6 .              TAPE SERIAL NUMBER                       77000027
000026                           27957+P2TBLK   DS    XL2 .              BLOCK LENGTH                             78000032
000028                           27958+P2CCWAD  DS    XL4                                                @DM01726 78050028
00002C                           27959+P2CSWRES DS    XL1                                                @DM01726 78100028
00002D                           27960+         DS    XL3                ALIGNMENT                       @DM01726 78150032
000030                           27961+P2RUNSAV DS    0XL16              SAVEAREA FOR RUN ERP            @D34YDAZ 78200034
000030                           27962+P2TSCSW  DS    XL8                FOR CSW IN ERROR                @DA05386 78250032
000038                           27963+P2TSSNS0 DS    XL2                FOR SENSE BYTES 0,1             @DA05386 78300032
00003A                           27964+P2TSSNS5 DS    X                  FOR SENSE BYTE 5                @DA05386 78350032
00003B                           27965+         DS    XL5                RESERVED                        @DA05386 78400032
000040                           27966+SDR2400  DS    XL10 .             2400 SDR AREA                            79000027
00004A                           27967+P2TRES   DS    XL2 .              RESERVED FOR EXPANSION                   80000027
                           0004C 27968+P22400E  EQU   *                  END OF 2400 PUB2                         81000032
                                 27969+*                                                                        82000027
                                 27970+*    END OF 2400 TAPE PUB2 ENTRY                                         83000027
                                 27971+*                                                                        84000027
00004C                     00040 27972+         ORG   SDR2400            POINT TO TAPE SDR COUNTER AREA           85000032
000040                           27973+SDR3420  DS    XL20 .             3420  TAPE DRIVE COUNTER AREA          86000027
                           00054 27974+P23420E  EQU   * .                END OF 3420 PUB2                         87000032
                                 27975+*                                                            @DL28702 87100028
                                 27976+*        3886  PUB2  EXTENSION                               @DL28702 87200028
                                 27977+*                                                            @DL28702 87300028
000054                     00006 27978+         ORG   PUB2EXT                                      @DL28702 87400028
000006                           27979+SDR3886  DS    XL20                SDR COUNTER AREA           @DL28702 87500032
                           0001A 27980+P23886E  EQU   *                                            @DL28702 87600028
                                 27981+*                                                            @D34MEC8 87650034
                                 27982+*        3895 READER/INSCRIBER EXTENSION                     @D34MEC8 87700034
                                 27983+*                                                            @D34MEC8 87750034
00001A                     00006 27984+         ORG   PUB2EXT                                      @D34MEC8 87800034
                           00006 27985+P23895X  EQU   *                                            @D34MEC8 87850034
000006                           27986+P2INAME  DS    CL2                 NAME COMPLETION FIELD      @D34MEC8 87900034
                           00008 27987+P23895E  EQU   *                                            @D34MEC8 87950034



                                 27990+****     CBD DUMMY CONTROL SECTION     ****                           35220030

000000                           27992+CBDSECT  DSECT  .                LAYOUT OF CONSOLE BUFFER          LAV 35280030
000000                           27993+CB       DS    0CL104 .          CONSOLE BUFFER                    LAV 35310030
000000                           27994+CBCCW    DS    0D .              CONSOLE BUFFER CCW                LAV 35340030
000000                           27995+CBCCWCC  DS    XL1 .             COMMAND CODE IN CBF CCW           LAV 35370030
000001                           27996+         DS    AL3 .             DATA ADDRESS IN CBF CCW           LAV 35400030
000004                           27997+CBCCWCB  DS    XL1 .             CHAIN BYTE IN CBF CCW             LAV 35430030
000005                           27998+         DS    XL1 .             RESERVED IN CBF CCW               LAV 35460030
000006                           27999+CBCCWBC  DS    H .               BYTE COUNT IN CBF CCW             LAV 35490030

000008                           28001+CBCCB    DS    0XL16 .           CONSOLE BUFFER CCB                LAV 35550030
000008                           28002+         DS    XL2 .             RESIDUAL COUNT                    LAV 35580030
00000A                           28003+CBCCBTI1 DS    XL1 .             TRANSMISSION INFORMATION BYTE 1   LAV 35610030
```

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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00000B                           28004+         DS    XL1 .              TRANSMISSION INFORMATION BYTE 2   LAV 35640030
00000C                           28005+         DS    XL2 .              CSW STATUS BYTES                  LAV 35670030
00000E                           28006+CBCCBUN  DS    XL2 .              SYMBOLIC UNIT ADDRESS             485 35700030
000010                           28007+         DS    XL1 .              RESERVED FOR ASCII                LAV 35730030
000011                           28008+         DS    AL3 .              CCW ADDRESS                       LAV 35760030
000014                           28009+         DS    XL1 .              RESERVED FOR PHYSICAL IOCS        LAV 35790030
000015                           28010+         DS    AL3 .              CCW ADDRESS IN CSW                LAV 35820030

000018                           28012+CBDATA   DS    CL80 .             DATA IN CONSOLE BUFFER            LAV 35880030
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                 28017+*  SECTION 90.1 - PERMANENT AREA                                          00180030

                                 28019+*    THE FOLLOWING DUMMY SECTION DESCRIBES THE FORMAT AND                 00200030
                                 28020+*    ORGANISATION OF THE POWER/VS PERMANENT AREA WHICH OCCUPIES           00210030
                                 28021+*    THE FIRST THREE PAGES OF THE POWER/VS PARTITION AND                  00220030
                                 28022+*    CONTAINS BOTH THE CONTROL ADDRESS TABLE AND THE MAJOR                00230030
                                 28023+*    SERVICE ROUTINES OF THE POWER/VS SYSTEM.                             00240030


000000                           28025+PADS DSECT                       PERMANENT AREA                         00260030

000000                           28027+PASV DS     CL120                SAVE AREA                              00280030
000078                           28028+PALB DS     CL184                LABEL AREA                             00290030
000130                           28029+     DS     CL16                 ALIGNMENT                              00300030

                          00008  28031+PSIP EQU    PASV+8               INTERRUPT PSW                          00320030
                          0000A  28032+PSCC EQU    PASV+10              SAVED CONDITION CODE                   00330030
                          0000C  28033+PSAD EQU    PASV+12              INTERRUPT ADDRESS                      00340030

                          00140  28035+PANU EQU    *                    START REAL NUCLEUS CODE                00360030
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 28038+*  CONTROL ADDRESS TABLE                                                  00390030

                                 28040+*          THE FOLLOWING FIELD IS THE STORAGE DESCRIPTOR OF              00410030
                                 28041+*          THE POWER/VS CONTROL ADDRESS TABLE.                           00420030
000140 C3C1E34040404040          28043+PASD DC    CL16'CAT     V10M0   ' STORAGE DESCRIPTOR                    00440034

                                 28045+*          THE FOLLOWING EVENT CONTROL BLOCK IS USED TO SIGNAL           00460030
                                 28046+*          TO POWER/VS THAT IT HAS WORK TO DO.                           00470030
000150 00000000                  28048+PAEB DC    F'0'                  POWER/VS MASTER ECB                     00490030

                                 28050+*          THE FOLLOWING FIELDS DEFINE THE KEY BOUNDARIES                00510030
                                 28051+*          WITHIN THE VIRTUAL ADDRESS SPACE OF THE POWER/VS              00520030
                                 28052+*          PARTITION, DIVIDING IT INTO THE PERMANENT AREA,               00530030
                                 28053+*          THE FIXABLE AREA, AND THE PAGEABLE AREA.                      00540030

000154 00000000                  28055+PAPA DC    A(0)                  START OF POWER/VS PARTITION             00560030
000158 00000000                  28056+PAFA DC    A(0)                  START OF FIXABLE AREA                   00570030
00015C 00000000                  28057+PAVA DC    A(0)                  START OF PAGEABLE AREA                  00580030
000160 00000000                  28058+PAEN DC    A(0)                  END OF POWER/VS PARTITION +1            00590030

                                 28060+*          THE FOLLOWING FIELDS DEFINE THE BOUNDARIES OF THE             00610030
                                 28061+*          SYSTEM LOGICAL TRANSIENT AREA.                                00620030

000164 00000000                  28063+PALS DC    A(0)                  START OF LTA                            00640030
000168 00000000                  28064+PALE DC    A(0)                  END OF LTA +1                           00650030

                                 28066+*          THE FOLLOWING FIELD CONTAINS THE ADDRESS OF THE               00670030
                                 28067+*          DOS/VS PROGRAM INFORMATION BLOCK FOR THE                      00680030
                                 28068+*          POWER/VS PARTITION AND IS USED BY APPENDAGE                   00690030
                                 28069+*          ROUTINES TO ACTIVATE THE POWER/VS TASK                        00700030
                                 28070+*          SELECTION MECHANISM WHEN APPROPRIATE.                         00710030

00016C 00000000                  28072+CAPB DC    A(0)                  ADDRESS OF POWER PIB                    00730030
```

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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                 28075+*  SECTION 90.2 - RELOCATABLE CONSTANTS                                  00770030

                                 28077+*    ALL OF THE FOLLOWING CONSTANTS REQUIRE SOME FORM OF                 00830030
                                 28078+*    RELOCATION AT POWER/VS START-UP TIME.  THE NECESSARY                00840030
                                 28079+*    RELOCATION IS PERFORMED BY THE INITIATOR TASK.                      00850030

                                 28081+*          THE FOLLOWING VALUE IS USED BY THE INITIATOR                  00870030
                                 28082+*          TO CALCULATE THE RELOCATION FACTOR WHICH MUST                 00880030
                                 28083+*          BE APPLIED WITHIN THE RELOCATION PROCESS.                     00890030

000170 00000170                  28085+CARL DC    A(*)                  RELOCATION CONSTANT                     00910030

                                 28087+*    EXTERNAL INTERFACE ADDRESSES                                        00930030

                                 28089+*          THE FOLLOWING ADDRESS CONSTANTS REPRESENT THE                 00950030
                                 28090+*          ADDRESSES OF APPENDAGE ROUTINES LOCATED WITHIN                00960030
                                 28091+*          THE POWER/VS PARTITION AND ARE USED TO ESTABLISH              00970030
                                 28092+*          ENTRY TO THE ROUTINES FROM THE DOS/VS SUPERVISOR              00980030
                                 28093+*          AND THE ATTENTION ROUTINE.                                    00990030

000174 00000000                  28095+CAAI DC    A(AI00)               ATTENTION INTERFACE                     01010030
000178 00000000                  28096+CAPF DC    A(PF00)               PAGE FAULT APPENDAGE                    01020030
00017C 00000000                  28097+CAHR DC    A(HR00)               HOT READER ROUTINE                      01030030
000180 00000000                  28098+CACE DC    A(CE00)               RJE CE APPENDAGE                        01040030
000184 00000000                  28099+CA00 DC    A(SU00)               SVC 0 ROUTINE                           01050030
000188 00000000                  28100+CA90 DC    A(SU90)               SVC90/SVC91 APPENDAGE                   01060030
                          00006  28101+CAN1 EQU   (*-CARL-4)/4          NUMBER OF CONSTANTS PART 1  @DA10988 01070034

                                 28103+*          THE FOLLOWING ARE USED BY SPOOL MANAGEMENT IN      @D33PAJB 01080300
                                 28104+*          MAINTAINING CROSS-PARTITION XECB INFORMATION       @D33PAJB 01080600

                                 28106+*          IN-CORE READER CROSS-PARTITION XECB                @D33PAJB 01081200

00018C 00000000                  28108+ICXP DC    F'0'                  IN-CORE READER XECB          @D33PAJB 01081800
000190 00                        28109+IPIK DC    X'00'                 IN-CORE RDR USER'S PIK       @D33PAJB 01082100
000191 000000                    28110+ICTA DC    AL3(0)                XECBTAB ADDR OF ICR XECB     @D33PAJB 01082400

                                 28112+*          SPOOL/COMMAND MANAGER CROSS-PARTITION XECB         @D33PAJB 01083000

000194 00000000                  28114+SMXP DC    F'0'                  SPOOL/COMMAND MGR XECB       @D33PAJB 01083600
000198 00                        28115+SPIK DC    X'00'                 SPOOL/COMMAND MGR USER'S PIK@D33PAJB 01083900
000199 000000                    28116+SMTA DC    AL3(0)                XECBTAB ADDR OF SPM XECB     @D33PAJB 01084200

                                 28118+*          XECB WAITM LIST USED BY SPOOL MANAGER MASTER TCB   @D33PAJB 01084800
                                 28119+*          FOR SELECTING THE IN-CORE RDR TASK AND/OR THE      @D33PAJB 01085100
                                 28120+*          SPOOL/COMMAND MANAGER LST TASK                     @D33PAJB 01085400
```

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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

00019C 00000000                  28122+ICWL DC     A(0)                  ADDR(ICXP)                  @D33PAJB 01086000
0001A0 00000000                  28123+SPWL DC     A(0)                  ADDR(SMXP)                  @D33PAJB 01086300
0001A4 FF                        28124+     DC     X'FF'                 WAITM LIST DELIMITER        @D33PAJB 01086600
0001A5 000000                    28125+     DC     AL3(0)                RESERVED                    @D33PAJB 01086900


                                 28127+*  SECTION 90.5 - EQUATE STATEMENTS                                    05090030


                                 28129+*          THE FOLLOWING EQUATE STATEMENTS PROVIDE NECESSARY          05110030
                                 28130+*          RESOLUTION FOR UNDEFINED SYMBOLS WITHIN THE PADS           05120030
                                 28131+*          DUMMY SECTION.                                             05130030

                           00000 28133+AI00 EQU    0                     ATTENTION INTERFACE                 05150030
                           00000 28134+PF00 EQU    0                     PAGE FAULT APPENDAGE                05160030
                           00000 28135+HR00 EQU    0                     HOT READER ROUTINE                  05170030
                           00000 28136+CE00 EQU    0                     RJE CE ROUTINE                      05180030
                           00000 28137+SU00 EQU    0                     SVC 0 INTERFACE                     05190030
                           00000 28138+SU90 EQU    0                     SVC 90 INTERFACE                    05200030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                 28142+*  SECTION 93.1 - PARTITION CONTROL BLOCK                                  00100030

                                 28144+*    THE FOLLOWING DUMMY SECTION DESCRIBES THE FORMAT AND                  00120030
                                 28145+*    ORGANISATION OF THE POWER/VS PARTITION CONTROL BLOCK                  00130030
                                 28146+*    CREATED FOR EACH PARTITION BROUGHT UNDER POWER/VS.                    00140030


000000                           28148+PDDS DSECT                       PARTITION CONTROL BLOCK                  00160030

                                 28150+*          THE FIRST SIXTY-FOUR BYES OF THE BLOCK CONTAIN                  00180030
                                 28151+*          GENERAL PARTITION INFORMATION, STATISTICAL                      00190031
                                 28152+*          INFORMATION DESTINED FOR THE EXECUTION ACCOUNT                  00194031
                                 28153+*          RECORD AND A POINTER TO THE SLI WORK AREA.                      00196031

000000 D7C4C24040404040          28155+PSSD DC    CL16'PDB             ' STORAGE DESCRIPTOR                       00210030

000010 4040                      28157+     DC    CL2'  '                RESERVED                                 00230030
000012 D7D5                      28158+PDPI DC    CL2'PN'                PARTITION IDENTIFIER                     00240030
000014 00000000                  28159+PDNE DC    F'0'                   NUMBER OF ENTRIES                        00250030
000018 00000000                  28160+PDCM DC    A(0)                   PARTITION COMREG                         00260030
00001C 00000000                  28161+PDPB DC    A(0)                   PIB ADDRESS                              00270030

000020 00000050                  28163+PDPA DC    A(PDPU)                FIRST ENTRY ADDRESS                      00282031
000024 00000000                  28164+PDBB DC    A(0)                   BOUNDARY BOX ENTRY POINTER               00282431
000028 0000                      28165+PDJN DC    X'0000'                LST/PUN JOB NR INDICATORS   @D33RDTP    00283233
00002A 000000000000              28166+     DC    XL6'00'                RESERVED                    @D33RDHL    00284033

000030 00000000                  28168+PDSL DC    A(0)                   PTR TO SLI WORKAREA                      00420030
000034 00000000                  28169+PD#L DC    F'0'                   NR OF LINES SPOOLED                      00430030
000038 00000000                  28170+PD#C DC    F'0'                   NR OF CARDS SPOOLED                      00440030
00003C 0000                      28171+PD#P DC    H'0'                   NR OF PAGES SPOOLED                      00450030
00003E C1                        28172+PDOC DC    C'A'                   DEFAULT OUTPUT CLASS        @DA03985     00452032
00003F 00                        28173+PDMT DC    X'00'                  MULTTASK INDICATOR          @D33RDTP     00460033

                                 28175+*          THE FOLLOWING SIXTEEN BYTES ARE USED TO GENEARTE                00460831
                                 28176+*          A 3540 DEVICE LIST ENTRY WHEN 3540 DATA IS TO BE                00461231
                                 28177+*          SPOOLED. THE FORMAT OF THE ENTRY IS DESCRIBED BY                00461631
                                 28178+*          THE IPW$DDE MACRO INSTRUCTION.                                  00463231

000040 0000000000000000          28180+PDER DC    4F'0'                  3540 SPOOL ENTRY                         00466831
```

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                        28183+*          THE REMAINDER OF THE BLOCK CONTAINS THE PARTITION          00480030
                        28184+*          DEVICE LIST, CONSISTING OF ONE OR MORE SIXTEEN-BYTE        00490030
                        28185+*          ENTRIES, EACH ONE OF WHICH DESCRIBES ONE OF THE            00500030
                        28186+*          SPOOL DEVICES ASSOCIATED WITH THE PARTITION.  THE          00510030
                        28187+*          FORMAT OF EACH ENTRY IS DESCRIBED BY THE IPW$DDE           00520030
                        28188+*          MACRO INSTRUCTION.                                         00530030

                        28190+*          THE FOLLOWING STATEMENTS PROVIDE ADDITIONAL                00550030
                        28191+*          DESCRIPTION OF THE FIRST OF THESE ENTRIES - THAT           00560030
                        28192+*          FOR THE PARTITION READER DEVICE.                           00570030

000050 00000000         28194+PDPU DC    A(0)                READER PUB ADDR                        00590030
000054 00000000         28195+PDTC DC    A(0)                ADDRESS OF EXR TCB                     00600030
000058 00000000         28196+PDCB DC    A(0)                CCB ADDRESS                            00610030
00005C 00               28197+PDDT DC    X'00'               DEVICE TYPE CODE                       00620030
00005D 00               28198+PDCL DC    X'00'               DEVICE CLASS CODE                      00630030
00005E 0000             28199+PDRQ DC    X'0000'             REQUESTOR ID                           00640030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


                                  28203+*  SECTION 93.2 - DEVICE LIST ENTRY                                        00100030

                                  28205+*          THE FOLLOWING STATEMENTS DEFINE THE FORMAT OF EACH          00120030
                                  28206+*          OF THE ENTRIES WITHIN THE DEVICE LIST CONTAINED             00130030
                                  28207+*          WITHIN THE PARTITION CONTROL BLOCK.                         00140030

000000                            28209+TLDS DSECT  ,                    DUMMY SECTION DEFINITION             00160030

000000 00000000                   28211+TLPU DC     A(0)             PUB ADDRESS OF DEVICE TO BE SPOOLED       00180030
000004 00000000                   28212+TLTC DC     A(0)             ADDRESS OF ECECUTION TCB                  00190030
000008 00000000                   28213+TLCB DC     A(0)             CCB ADDRESS OF REQUEST TO BE SPOOLED      00200030
00000C 00                         28214+TLDT DC     X'00'            DEVICE TYPE CODE                          00210030
00000D 00                         28215+TLCL DC     X'00'            DEVICE CLASS CODE                         00220030
00000E 0000                       28216+TLRQ DC     X'0000'          REQUESTOR ID                              00230030

                            00010 28218+TLLN EQU    *-TLDS                                                     00250030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19


000000                           28221+DPDADR   DSECT .                 LAYOUT OF DPD TABLE                EM 36750030
000000                           28222+SVUNT    DS    H .               CHANNEL AND UNIT OF SYSVIS DEVICE  EM 36780030
000002                           28223+DEVICE   DS    H .               DEVICE TYPE CODE OF SYSVIS DEV.    EM 36810030
000004                           28224+RTL      DS    2H .              RELATIVE TRACK ADDR.OF LOW.EXT.LIM.EM 36840030
000008                           28225+RTHIGH   DS    2H .              REL.TRACK OF UPPER EXTENT LIMIT    EM 36870030
00000C                           28226+SVPAG#   DS    H .               NUMBER OF VIRTUAL PAGES SUPPORTED  EM 36900030
00000E                           28227+SVOLID   DS    3H .              VOLUME ID.FOR PAGE DATA SET        EM 36930030
000014                           28228+SLLADCON DS    2H .              ADDR OF CONST TABLE FOR LOAD LEV   PF 36960030

                                 28230+* SUPERVISOR - BDYBOX - 5745-SC-SUP - REL. 28.0                     00260028
000000                           28231+BBOXADR  DSECT  .                 DSECT FOR ONE ENTRY IN BOUNDARY    00300028
000000                           28232+REALORP  DS    XL4 .             ORIGIN OF REAL PARTITION           00400028
000004                           28233+REALNDP  DS    XL4 .             END OF REAL PARTITION +1           00500028
000008                           28234+VIRTORP  DS    XL4 .             ORIGIN OF VIRTUAL PARTITION        00600028
00000C                           28235+VIRTENDP DS    XL4 .             END OF VIRTUAL PARTITION +1        00700028

                                 28237+*****    EQUATES FOR FIRST ENTRY IN BBOX                           00900028
                           00000 28238+ALTSDAR  EQU   REALORP .         ADDR.OF ALTERNATE AREA             01000028
                           00004 28239+MINREALP EQU   REALNDP .         N.OF PAGE FRAMES IN MIN.REAL PART  01100028
                           00006 28240+MPGEPOOL EQU   REALNDP+2 .       N.OF PAGE FRAMES IN MAIN PAGE POOL 01200028
                           00008 28241+ORIGVIRT EQU   VIRTORP .         ORIGIN OF VIRTUAL STORAGE          01300028
                           0000C 28242+FINVIRT  EQU   VIRTENDP .        END OF VIRTUAL STORAGE +1          01400028

                                 28244+* RMSR - MAPCOMR - 5745-SC-RMS - REL. 34.0                @D347DAZ 02004034
000000                           28245+COMREG   DSECT                                                      05000025
000000                           28246+JOBDATE  DS    CL8 .           00 JOB DATE                        06000028
000008                           28247+PPBEG    DS    H .             08 SUPERVISOR END                  07000028
00000A                           28248+EOSSP    DS    H .             10 END OF STORAGE PROTECTION       08000028
00000C                           28249+         DS    11X .           12 USER SCRATCH AREA               10000028
000017                           28250+UPSI     DS    X .             23 UPSI BYTE                       11000028
000018                           28251+COMNAME  DS    CL8 .           24 JOB NAME                        12000028
000020                           28252+PPEND    DS    F .             32 HIGHEST STORAGE ADDR OF PARTITION 13000028
000024                           28253+HIPHAS   DS    F .             36 END ADDR OF LAST PHASE LOADED   14000028
000028                           28254+HIPROG   DS    F .             40 END ADDR OF LONGEST PHASE LOADED 15000028
00002C                           28255+LABLEN   DS    H .             44 LENGTH OF PP LABEL AREA         16000028
00002E                           28256+PID      DS    H .             46 PROGRAM INTERRUPT KEY (PIK)     17000028
000030                           28257+EOCADR   DS    F .             48 END OF STORAGE ADDRESS          18000028
000034                           28258+CONFIG   DS    X .             52 MACHINE CONFIGURATION BYTE      19000028
000035                           28259+LTACT    DS    X .             53 SYSTEM CONFIGURATION BYTE       20000028
000036                           28260+SOB1     DS    X .             54 STDJC SWITCH 1                  21000028
000037                           28261+SOB2     DS    X .             55 STDJC SWITCH 2                  22000028
000038                           28262+JCSW1    DS    X .             56 JOB CONTROL SWITCHES            23000028
000039                           28263+JCSW2    DS    X .             57 LINKAGE CONTROL BYTE            24000028
00003A                           28264+JCSW3    DS    X .             58 LANGUAGE TRANSLATOR CONTROL BYTE 25000028
00003B                           28265+JCSW4    DS    X .             59 JOB DURATION INDICATOR BYTE     26000028
00003C                           28266+DALC     DS    XL2 .           60 DISK ADDRESS OF LABEL CYLINDER  27000028
00003E                           28267+FOCLPT   DS    H .             62 ADDRESS OF FOCL                 28000028
000040                           28268+PUBPT    DS    H .             64 ADDRESS OF PUB TABLE            29000028
000042                           28269+FAVPT    DS    H .             66 ADDRESS OF FAVP                 30000028
000044                           28270+JIBPT    DS    H .             68 ADDRESS OF JIB TABLE            31000028
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT
000046                           28271+TEBPT    DS    H .              70 NULL OR ADDRESS OF TEB                32000028
000048                           28272+FICLPT   DS    H .              72 ADDRESS OF FICL                       33000028
00004A                           28273+NICLPT   DS    H .              74 ADDRESS OF NICL                       34000028
00004C                           28274+LUBPT    DS    H .              76 ADDRESS OF LUB TABLE                  35000028
00004E                           28275+SYSLINE  DS    X .              78 SYSLST LINE COUNT                     36000028
00004F                           28276+SYSDATE  DS    0CL9 .           79 SYSTEM DATE                     4-0 37000028
00004F                           28277+MMDD     DS    XL4 .                MMDD OR DDMM                  4-0 37050028
000053                           28278+YYDDD    DS    XL5 .                YYDDD PORTION OF DATE         4-0 37100028
000058                           28279+LIOCSCOM DS    2X .             88 LIOCS COMMUNICATIONS BYTES            38000028
00005A                           28280+PIBPT    DS    H .              90 ADDRESS OF PIB TABLE                  39000028
00005C                           28281+CHKPTID  DS    H .              92 LAST CHECKPOINT NUMBER                40000028
00005E                           28282+JOBZON   DS    2X .             94 JOB ZONE IN MINUTES             5-0 41000028
000060                           28283+DIBPT    DS    H .              96 BACKGROUND DIB POINTER                42000028
000062                           28284+DEVFLG1  DS    C .              98 DEVICE FLAGS F. AUTOCLOSE @D34YDAZ    42050034
000063                           28285+         DS    C .              99 RESERVED                  @D34YDAZ    42100034
000064                           28286+PCPTR    DS    H .             100 ADDR OF PC OPTION TABLE               44000028
000066                           28287+ITPTR    DS    H .             102 ADDR OF IT OPTION TABLE               45000028
000068                           28288+OCPT     DS    H .             104 ADDR OF OC OPTION TABLE               46000028
00006A                           28289+PWTIMS   DS    H .             106 KEY OF PROGRAM WITH IT SUPPORT        47000028
00006C                           28290+         DS    H .             108 RESERVED                       5-0 48000028
00006E                           28291+LTK      DS    H .             110 LOGICAL TRANSIENT KEY                 49000028
000070                           28292+SYSPAR   DS    CL4 .           112 ADDRESS OF SYSPARM FIELD       5-0 50000028
000074                           28293+JAPART   DS    F .             116 POINTER TO JA PARTITION TABLE  5-0 51000028
000078                           28294+TODCOM   DS    F .             120 ADDR OF TOD CLOCK COMM AREA    5-0 52000028
00007C                           28295+PIB2PTR  DS    H .             124 ADDRESS OF PIB EXTENSION              53000028
00007E                           28296+PDTABB   DS    H .             126 ADDR OF MICR DTF TABLE                54000028
000080                           28297+IJLQTTAD DS    F .             128 ADDR OF QTAM VECTOR TABLE             55000028
000084                           28298+BGCOMPT  DS    H .             132 ADDR OF BG COMM REGION                56000028
000086                           28299+OPTNBYTE DS    X .             134 OPTION INDICATOR BYTE          4-0 57000028
000087                           28300+RMSROPEN DS    X .             135 SYSTEM CONFIG BYTE 2           4-0 57050028
000088                           28301+COMEX    DS    F .             136 RESERVED                       5-0 58000028
00008C                           28302+STDOPT   DS    X .             140 STANDARD OPTIONS               5-0 58050028
00008D                           28303+TEMOPT   DS    X .             141 TEMPORARY OPTIONS              5-0 58070028
00008E                           28304+DISKCONF DS    X .             142 DISK CONFIG BYTE                      58100028
00008F                           28305+PROCNAM  DS    CL8 .           143 PROCEDURE NAME                    VB  58105028
000097                           28306+PSWTCH   DS    X .             151 INTERFACE FLAGS FOR CAT. PROC.    VB  58110028
000098                           28307+POVNAM   DS    CL7 .           152 STATEMENT NAME                    VB  58115028
00009F                           28308+INSIZE   DS    X .             153 INDICATOR 81 BYTE          @DM00395 58165028
0000A0                           28309+POWPCB   DS    F               160 ADDR OF PART CONT BLOCK    @D30EULR 58175030
0000A4                           28310+POWFLG1  DS    X .             164 POWER/VS FLAG BYTE 1       @D30EULR 58215030
0000A5                           28311+POWFLG2  DS    X .             165 POWER/VS FLAG BYTE 2       @D30EULR 58265030
0000A6                           28312+         DS    H               166 RESERVED                   @D30EULR 58315030
                        000A8    28313+COMREND  EQU   *                                              @D347DAZ 58365034


                                 28316+*        DUMMY CONTROL SECTIONS FOR GETVIS SUPPORT                 RZ 37110030
0000A8                  00020    28317+         ORG   COMREG+32                                             RZ 37170030
000020                           28318+IJBTOP   DS    F                END ADDRESS OF USER AREA           RZ 37200030
000024                  00086    28319+         ORG   COMREG+134       INDICATE                     @DS28010 37230030
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  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

000086                           28320+ANCHTBYT DS    XL1                ANCHOR TABLE EXISTS         @DS28010 37260030
                           00001 28321+ANCHTBIT EQU   X'01'                                          @DS28010 37290030
                                 28322+*                                                                RZ 37320030
000000                           28323+ANCHTAB  DSECT                                                   RZ 37350030
                                 28324+*        THE FIRST FOUR WORDS ARE USED FOR CDLOAD AND VSAM          37380030
000000                     00400 28325+         ORG   ANCHTAB+1024                                       RZ 37410030
000400                           28326+BVIRTMEM DS    F                   BEGIN OF GETVIS AREA            RZ 37440030
000404                           28327+EVIRTMEM DS    F                   END OF GETVIS AREA              RZ 37470030
000408                           28328+BVISTAB  DS    F                   BEGIN OF VISTAB                 RZ 37500030
00040C                           28329+EVISTAB  DS    F                   END OF VISTAB                   RZ 37530030
000410                           28330+CURPOINT DS    F                   START SEARCH OF BITSTRING       RZ 37560030
000414                           28331+SSEARCH  DS    F                   NEW START SEARCH ADDRESS        RZ 37590030
000418                           28332+SVWORK1  DS    F                   SAVE WORK REG 1                 RZ 37620030
00041C                           28333+YBITBYT  DS    H                   # OF BITS IN ABYTE              RZ 37650030
                           0041E 28334+VISTAB   EQU   *                   BEGIN OF VISTAB                 RZ 37680030

                                 28336+*        DUMMY CONTROL SECTION FOR PAGETAB ENTRY          @DL2982F 37800030
000000                           28337+PGTABADR DSECT                                            @DL2982F 37830030
000000                           28338+PGTBTIK  DS    X .                 TIK OF REQUESTOR        @DL2982F 37860030
000001                           28339+PGTLISTP DS    XL3 .               LIST POINTER            @DL2982F 37890030
000004                           28340+PGTBIND  DS    X .                 INDICATORS FOR POSTING  @DL2982F 37920030
000005                           28341+PGTECBP  DS    XL3 .               POINTER TO ECB          @DL2982F 37950030

000000                           28343+XXSECT   DSECT  .                   FOR DEBUGGING ONLY              EM 38040030
000000                           28344+XXCHAIN  DS    1F .                                                EM 38070030
000004                           28345+XXOPSW   DS    2F .                                                EM 38100030
00000C                           28346+XXSELECT DS    1C .                                                EM 38130030
00000D                           28347+XXRID    DS    1C .                                                EM 38160030
00000E                           28348+XXPIK    DS    1C .                                                EM 38190030
00000F                           28349+         DS    1C .                                                EM 38220030
000010                           28350+XXREG0   DS    4F .                                                EM 38250030
000020                           28351+XXREG4   DS    4F .                                                EM 38280030
000030                           28352+XXREG8   DS    3F .                                                EM 38310030
00003C                           28353+XXREGB   DS    5F .                                                EM 38340030



                                 28355+*                                                          @DL29ZCJ 38400030
                                 28356+*        DUMMY CONTROL SECTION FOR FETCH TABLE ENTRY       @DL29ZCJ 38430030
                                 28357+*                                                          @DL29ZCJ 38460030

000000                           28359+FTENTRY  DSECT                                            @DL29ZCJ 38520030
000000                           28360+         DS    0F                  FULLWORD ALIGNMENT      @DL29ZCJ 38550030
000000                           28361+CONDSDIR DS    X                   CONDS COUNTER           @DL29ZCJ 38580030
000001                           28362+SLDDIR   DS    AL3                 ADDRESS OF SECOND LEVEL DIR. @DL29ZCJ 38610030
000004                           28363+TCDIR    DS    H                   NO. OF TRACKS/CYLINDER  @DL29ZCJ 38640030
000006                           28364+BTDIR    DS    H                   LIBRARY BLOCKS(1K)/TRACK @DL29ZCJ 38670030
000008                           28365+CATALDIR DS    0XL6                BBCCHH OF MAIN DIRECTORY @DL29ZCJ 38700030
000008                           28366+         DS    XL4                 BBCC OF MAIN DIRECTORY  @DL29ZCJ 38730030
00000C                           28367+CATHHDIR DS    XL2                 HH OF MAIN DIRECTORY    @DL29ZCJ 38760030
00000E                           28368+LINKDIR  DS    XL6                 BBCCHH OF LINK DIRECTORY @DL29ZCJ 38790030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                  28370+*        DUMMY CONTROL SECTION FOR THE SVA                      @DL29ZCJ 38850030

000000                            28372+DSVA     DSECT                                                  @DL29ZCJ 38910030
000000                            28373+VLT      DS    2F                DATE+TIME SVA UPDATED          @DL29ZCJ 38940030
000008                            28374+VDSA     DS    F                 START ADDR OF SYS DIR LIST     @DL29ZCJ 38970030
00000C                            28375+VLSA     DS    F                 START ADDR OF VIRTUAL LIB      @DL29ZCJ 39000030
000010                            28376+VLNA     DS    F                 ADDR OF NEXT AVAIL LOC IN SVA@DL29ZCJ 39030030
000014                            28377+VLEA     DS    F                 ADDR OF END OF SVA             @DL29ZCJ 39060030
                                  28378+*                                                      *        @D32XDRP 39061032
                                  28379+*                                                      *        @D32XDRP 39062032
                                  28380+*        DUMMY CONTROL SECTIONS FOR FAST-TRANSLATE     *        @D32XDRP 39063032
                                  28381+*                                                               @D32XDRP 39064032
                                  28382+*                                                               @D32XDRP 39065032
000000                            28383+DIDADW   DSECT                 DIDA DWORD                     @D32XDRP 39066032
000000                            28384+DIDA1    DS    A                 VIRTUAL ADDRESS                @D32XDRP 39067032
000004                            28385+DIDA2    DS    A                 POINTER TO TRANSLATED ADDR     @D32XDRP 39068032
                                  28386+*                                                    *          @D32XDRP 39069032
                                  28387+*                                                    *          @D32XDRP 39070032
000000                            28388+REPLICA  DSECT                 REPLICA BLOCK                  @D32XDRP 39071032
000000                            28389+VCCBA    DS    A                 VIRTUAL CCB ADDRESS            @D32XDRP 39072032
000004                            28390+RCCBA    DS    A                 ADDRESS OF CCB COPY BLOCK      @D32XDRP 39073032
000008                            28391+TIMEST   DS    F                 TIMESTAMP                      @D32XDRP 39074032
00000C                            28392+REPPIK   DS    X                 PARTITION IDENTIFICATION KEY   @D32XDRP 39075032
00000D                            28393+REPLCNT  DS    X                 DELETION COUNTER               @D32XDRP 39075132
00000E                            28394+CCWSTRL  DS    H                 LENGTH OF CCW STRING           @D32XDRP 39076032
000010                            28395+REPDIDAL DS    A                 ADDRESS OF DIDAL               @D32XDRP 39077032
000014                            28396+REPDCB   DS    A                 POINTER TO DIDAL BLOCK CHAIN   @D32XDRP 39078032
000018                            28397+REPCCB   DS    XL16              VIRTUAL CCB                    @D32XDRP 39079032
000028                            28398+REPCCWS  DS    XL24              VIRTUAL CCW-S INCL.USER SENS   @D32XDRP 39080032
000040                            28399+REPFPT   DS    AL2               FORWARD POINTER                @D32XDRP 39081032
000042                            28400+REPBPT   DS    AL2               BACKWARD POINTER               @D32XDRP 39082032
000044                            28401+REPNEXT  DS    A                 CHAIN POINTER                  @D32XDRP 39083032


000000                            28403+RQTE     DSECT .           REQUEST TABLE ELEMENT(SERVICE TASK) @D34SDEP 39092034
000000                            28404+RQTPUB   DS    A .         PUB THAT NEEDS SIZE DETERMINATION   @D34SDEP 39094034
                            00004 28405+RQTNEXT  EQU   * .         NEXT REQUEST IN TABLE               @D34SDEP 39096034
                                  28406+*                                                              @D34SDEP 39098034
                            00080 28407+RQTWTD   EQU   X'80' .     1 = SERVICE TASK HAS WORK TO DO     @D34SDEP 39100034
                            00040 28408+RQTOVFLW EQU   X'40' .     1 = REQUEST TABLE IS FULL           @D34SDEP 39102034
                            00001 28409+SM3340   EQU   X'01' .     MASK FOR 3340 SENSE DATA SIZE BITS  @D34SDEP 39104034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 28412+*************************************************************************** 39120030
                                 28413+*        ALL EQUATES SHOULD BE GENERATED UNCONDITIONNALLY IN THIS     * 39150030
                                 28414+*        PART OF THE SEND MACRO.THEY SHOULD BE GROUPED TOGETHER IN    * 39180030
                                 28415+*        LOGICAL COMBINATIONS.PLEASE DO NOT CREATE NEW NAMES FOR      * 39210030
                                 28416+*        ALREADY EXISTING EQUATES.                                    * 39240030
                                 28417+*************************************************************************** 39270030

                                 28419+*****    REGISTER EQUATES         *****                                  39330030

                          00000  28421+R0       EQU   0                                                         39390030
                          00001  28422+R1       EQU   1                                                         39420030
                          00002  28423+R2       EQU   2                                                         39450030
                          00003  28424+R3       EQU   3                                                         39480030
                          00004  28425+R4       EQU   4                                                         39510030
                          00005  28426+R5       EQU   5                                                         39540030
                          00006  28427+R6       EQU   6                                                         39570030
                          00007  28428+R7       EQU   7                                                         39600030
                          00008  28429+R8       EQU   8                                                         39630030
                          00009  28430+R9       EQU   9                                                         39660030
                          0000A  28431+RA       EQU   10                                                        39690030
                          0000B  28432+RB       EQU   11                                                        39720030
                          0000C  28433+RC       EQU   12                                                        39750030
                          0000D  28434+RD       EQU   13                                                        39780030
                          0000E  28435+RE       EQU   14                                                        39810030
                          0000F  28436+RF       EQU   15                                                        39840030
                                 28437+*                                                                        39870030
                          00008  28438+DIV1     EQU   8 .               DEVICE-CONSTANTS-REG                    39900030
                          00003  28439+DIV2     EQU   3 .               DEVICE-CONSTANTS-REG              EM    39930030
                          00000  28440+CR0      EQU   0 .               CONTROL-REG 0                           39960030
                          00001  28441+CR1      EQU   1 .               CONTROL-REG 1                           39990030
                                 28442+*                                                                        40020030

                          00000  28444+FPR0     EQU   0                                                         40080030
                          00002  28445+FPR2     EQU   2                                                         40110030
                          00004  28446+FPR4     EQU   4                                                         40140030
                          00006  28447+FPR6     EQU   6                                                         40170030

                                 28449+*****    EQUATES FOR JOB ACCOUNTING *****                                40230030

                          00000  28451+JAOHID   EQU   X'00' .            ACCOUNTING ID FOR OVERHEAD TIME   JB    40290030
                          00010  28452+SVCPCINT EQU   X'10' .            IDENTIFY PC VERSUS SVC OLD PSW          40320030
                          00010  28453+EMPTY    EQU   X'10' .            FLAG FOR EMPTY SIO COUNT TAB ENTRY GS   40350030
                          00030  28454+ENDSGN   EQU   X'30' .            FLAG END OF SIO COUNT TABLE       GS    40380030

                                 28456+*****    DISPLACEMENTS INTO DTFMT *****                                  40440030

                          00008  28458+PDDM     EQU   8 .               DISPLACEMENT TO TIC CCW                 40530030
                          00010  28459+PDDL     EQU   16 .              DISPLACEMENT TO BATCH NUM CCW           40560030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00050 28460+PDDF     EQU   80 .              DISPLACEMENT TO CHAN/UNIT NUMBER      40590030
                          00084 28461+PDDB     EQU   132 .             DISPLACEMENT TO SAVE AREA IN DTF      40620030
                          000E0 28462+PDDH     EQU   224 .             DISPLACEMENT TO READ CCW              40650030
                          000EC 28463+PDDK     EQU   236 .             DISPLACEMENT TO FLAG IN CCW           40680030
                          00015 28464+PDDD     EQU   21 .              DISPLACEMENT TO LOG OPT SWITCH        41010030
                          00040 28465+PDDO     EQU   64 .              DISPLACEMENT TO NUMBER OF RECORDS     41040030
                          00048 28466+PDDE     EQU   72 .              DISPLACEMENT TO SENSE INFORMATION     41070030
                          0004A 28467+PDDE1    EQU   PDDE+2 .          DISPLACEMENT TO 2ND SENSE AREA        41100030
                          00050 28468+PDDC     EQU   80 .              DISPLACEMENT TO DATA IN DTF TABLE     41130030
                          00068 28469+PDDG     EQU   104 .             DISPLACEMENT TO IO AREA ADDRESS       41160030
                          00070 28470+PDDJ     EQU   112 .             DISPLACEMENT TO MAX RECORD NUMBER     41190030
                          00080 28471+PDDA     EQU   128 .             DISPLACEMENT TO LAST RECORD IN BUFF   41220030
                          00090 28472+PDDN     EQU   144 .             DISPLACEMENT TO LIOCS COUNTER         41250030
                          00093 28473+PDDN1    EQU   PDDN+3 .          DISPLACEMENT TO HI-ORDER BYTE         41280030
                          000A0 28474+PDDI     EQU   160 .             DISPLACEMENT TO FIRST IO AREA         41310030

                                28476+*****    BUFFER MASKS FOR MICR   *****                                41370030

                          00000 28478+PDCCC    EQU   X'00' .           BUFFER MASK - CHAINNING CHECK         41430030
                          00008 28479+PDBN     EQU   X'08' .           BUFFER MASK - BATCH NUMBERING         41460030
                          00020 28480+PDORN    EQU   X'20' .           BUFFER MASK - OVERRUN                 41490030
                          00020 28481+PDLSS    EQU   X'20' .           BUFFER MASK - LATE STACKER SELECT     41520030
                          00040 28482+PDREJ    EQU   X'40' .           BUFFER MASK - DOCUMENT REJECT         41550030
                          00080 28483+PDBNUM   EQU   X'80' .           BUFFER MASK - BATCH NUMBERING         41580030
                          00080 28484+PDRCD    EQU   X'80' .           BUFFER MASK - RECORD AVAILABLE        41610030
                          00080 28485+PDAS     EQU   X'80' .           BUFFER MASK - AUTO SELECT             41640030

                          00013 28487+PDSNOS   EQU   X'13' .           SENSE BITS 3,6,7 SNOS FOR SIO         41700030
                          000B0 28488+PDSNOT   EQU   X'B0' .           SENSE BITS 0,2,3  SNOS FOR TIO        41730030
                          00020 28489+PDBO     EQU   X'20' .           SENSE BIT 2 - BUS OUT                 41760030
                          00004 28490+PDOVR    EQU   X'04' .           SENSE BIT 5 - OVERRUN                 41790030
                          00002 28491+PDAUTS   EQU   X'02' .           SENSE BIT 6 - AUTO SELECT             41820030
                          00001 28492+PDSE     EQU   X'01' .           SENSE BIT 7 - DOC SPACING ERROR       41850030
                                28493+*                                                                    41880030
                          00040 28494+PDOFFL   EQU   X'40' .           OPTION SWITCH - OFF LINE SORT         41910030
                          00020 28495+PDFT     EQU   X'20' .           OPTION SWITCH - FIRST TIME            41940030
                          00001 28496+PDFT1    EQU   X'01' .           OPTION SWITCH - 1 TIME SINCE OPEN     41970030
                          00001 28497+PDALT    EQU   X'01' .           OPTION SWITCH - ALTENATOR             42000030

                                28499+*****    PDTABB MASKS               *****                      435 42060030

                          000DF 28501+LINE2    EQU   X'DF' .              MASK FOR EXIT LINE 2       435 42120030
                          000EF 28502+LINE3    EQU   X'EF' .              MASK FOR EXIT LINE 3       435 42150030
                          000F7 28503+LINE4    EQU   X'F7' .              MASK FOR EXIT LINE 4       435 42180030
                          000FB 28504+LINE5    EQU   X'FB' .              MASK FOR EXIT LINE 5       435 42210030
                          000FD 28505+LINE6    EQU   X'FD' .              MASK FOR EXIT LINE 6       435 42240030
                          000FE 28506+LINE7    EQU   X'FE' .              MASK FOR EXIT LINE 7       435 42270030
                                28507+*                                                                    42300030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          000FF 28508+NOTQUED  EQU   X'FF' .            PUBCHANQUE POINTER                SD 42330030
                          000FF 28509+ENDPUB   EQU   X'FF' .            PUB POINTER                       SD 42360030


                                28511+*****    EQUATES FOR SVC34 (GETIME)    *****                          42420030

                          00007 28513+NEWMACRO EQU   X'07' .                 MASK FOR TESTING GETIME EXP.     42480030
                          0000C 28514+NOCARRY  EQU   12 .                    MASK FOR ADD LOGICAL             42510030
                          00003 28515+CARRY    EQU   3 .                     MASK FOR SUBTRACT LOGICAL        42540030
                          00002 28516+DATEBIT  EQU   X'02' .                 INDIC. PRESENCE OF // DATE       42630030
                          00040 28517+TODBIT   EQU   X'40' .                 TOD SUPPORT BIT                  42720030
                          00001 28518+GMT      EQU   X'01' .                 BIT INDICATES GMT                42750030
                          0016E 28519+LEAPYEAR EQU   366 .                   DAYS IN LEAP YEAR                42810030
                          0016D 28520+NOLPYEAR EQU   365 .                   DAYS IN NOT-LEAP YEAR            42840030
                          0001C 28521+FEBNOLP  EQU   28 .                    DAYS IN FEBR. IN NOT-LEAP        42870030
                          0001D 28522+FEBLEAP  EQU   29 .                    DAYS IN FEBR. IN LEAP YR         42900030
                          00003 28523+LEAP     EQU   X'03' .                 MASK TO TEST LEAP YEAR           42930030
                          0000F 28524+FSIGN    EQU   X'0F' .                                                  42960030
                                28525+*****                                                                   42990030


                                28527+*        EQUATES FOR VSAM/GETVIS SUPPORT                             RZ 43200030
                          0000C 28528+CDLMXP   EQU   12                                                     VD 43230030
                          00005 28529+PHSNAME  EQU   5                    PTR TO ANCHOR TABLE ENTRY @DL295HL 43260030
                          00008 28530+LOADPNT  EQU   8                    FIELD FOR LOAD POINT      @DL295HL 43290030
                          0000C 28531+ENTRPNT  EQU   12                     FIELD FOR ENTRY POINT    @DL295HL 43320030
                          00010 28532+STSW     EQU   16          STATUS SWITCH IN ANCHOR TABLE ENTRY @DL295HL 43350030
                          00011 28533+PHSLEN   EQU   17                   FIELD FOR PHASE LENGTH      @DL295HL 43380030
                          00014 28534+ENTRYL   EQU   20                                                     VD 43410030
                                28535+*        REGISTER NOTATION                                           RZ 43440030
                          00000 28536+REG0     EQU   0                     PARAMETER                       RZ 43470030
                          00001 28537+REG1     EQU   1                     PARAMETER                       RZ 43500030
                          00002 28538+LINKREG  EQU   2                    LINK REGISTER WITHIN GETVIS/FREEVISRZ 43530030
                          00003 28539+WORK1    EQU   3                     WORK REGISTER                   RZ 43560030
                          00004 28540+WORK2    EQU   WORK1+1                                               RZ 43590030
                          00005 28541+WORK3    EQU   WORK2+1                                               RZ 43620030
                          00006 28542+RETREG   EQU   6                     RETURN REGISTER                 RZ 43650030
                          00007 28543+PREG     EQU   7                     POINTER INTO VISTAB             RZ 43680030
                          00008 28544+CREG     EQU   8                     COUNTER                         RZ 43710030
                          00009 28545+HOLDREG  EQU   9                     HOLD RETURN ADDRESS             RZ 43740030
                          0000C 28546+ANCHBAS  EQU   12                    BASE FOR ANCHOR TABLE           RZ 43770030
                          0000D 28547+SVAREG   EQU   13                    SAVE AREA ADDRESS               RZ 43800030
                          0000F 28548+REG15    EQU   15                    RETURN CODE                     RZ 43830030
                                28549+*                                                                     RZ 43860030
                                28550+*        INDICATORS PASSED TO GETVIS                                 RZ 43890030
                                28551+*                                                                     RZ 43920030
                          00004 28552+SVAIND   EQU   X'04'                 INDICARE SVA SPECIFEED    @DM295HL 43950030
                          00002 28553+POOLIND  EQU   X'02'                 INDICATE POOL SPECIFIED         RZ 43980030
                          00001 28554+PAGEIND  EQU   X'01'                 INDICATE PAGE SPECIFIED         RZ 44010030
                                28555+*                                                                     RZ 44040030
                                28556+*        PAGE SIZE ETC.                                              RZ 44070030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 28557+*                                                                  RZ 44100030
                           00800 28558+PSIZE    EQU   2048 .               PAGESIZE                        RZ 44130030
                           0000B 28559+LDPSIZE  EQU   11 .                2'S LOGARITHM OF PAGE SIZE      RZ 44160030
                           00400 28560+VBYTB    EQU   1024 .              SIZE OF VIRTUAL STORAGE REPRESENTEDRZ 44190030
                                 28561+*                                  BY ONE BYTE IN VISTAB           RZ 44220030
                           0000A 28562+LDVBYTB  EQU   10 .                2'S LOG OF VBYTB                RZ 44250030
                           00080 28563+VBYTBI   EQU   128 .               SIZE OF VIRTUAL STORAGE REPRESENTEDRZ 44280030
                                 28564+*                                  BY ONE BIT IN VISTAB            RZ 44310030
                           00007 28565+LDVBYTBI EQU   7 .                 2'S LOG OF VBYTBI               RZ 44340030
                           00020 28566+BITREG   EQU   32 .                # OF BITS IN A REGISTER          RZ 44370030
                           00008 28567+BITBYT   EQU   8 .                 # OF BITS IN A BYTE             RZ 44400030
                           003E1 28568+MAXVISTB EQU   ANCHTAB+PSIZE-1-VISTAB .MAX. SIZE OF VISTAB            44430030
                           0000B 28569+MODREG   EQU   11                                          @DL295KR 44460030
                           00200 28570+VBYTSV   EQU   512                                         @DL295KR 44490030
                           00004 28571+PBSVA    EQU   4                                           @DL295KR 44520030
                           00009 28572+LDVBYTSV EQU   9                                           @DL295KR 44550030
                           00080 28573+ANCHSVA  EQU   X'80'                                       @DL295KR 44580030
                           0073B 28574+VSFLAG   EQU   SYSFLAG4                                    @DL295KR 44610030
                           00100 28575+MAXDATA  EQU   256                                         @DL295KR 44640030
                                 28576+*                                                                  RZ 44670030
                                 28577+*****    BRANCH CONDITION MASKS   *****                            44730030

                           00008 28579+E        EQU   8 .                 EQUAL                           44790030
                           00008 28580+Z        EQU   8 .                 ZERO                            44820030
                           00004 28581+L        EQU   4 .                 LOW                             44850030
                           00004 28582+M        EQU   4 .                 MIXED OR MINUS                  44880030
                           00002 28583+H        EQU   2 .                 HIGH                            44910030
                           00002 28584+P        EQU   2 .                 PLUS                            44940030
                           00001 28585+O        EQU   1 .                 ONES OR OVERFLOW                44970030
                           0000A 28586+HE       EQU   10 .                HIGH OR EQUAL                RZ 45000030
                           0000C 28587+LE       EQU   12 .                LOW OR EQUAL                 RZ 45030030
                           00007 28588+NE       EQU   7 .                 NOT EQUAL                       45060030
                           00007 28589+NZ       EQU   7 .                 NOT ZERO                        45090030
                           0000B 28590+NL       EQU   11 .                NOT LOW                         45120030
                           0000B 28591+NM       EQU   11 .                NOT MIXED OR NOT MINUS          45150030
                           0000D 28592+NH       EQU   13 .                NOT HIGH                     AP 45180030
                           0000D 28593+NP       EQU   13 .                NOT PLUS                        45210030
                           0000E 28594+NO       EQU   14 .                NOT ONES                        45240030
                           00000 28595+NOBRCH   EQU   0                   NO OPERATION           @DM03681 45270030
                           0000F 28596+UNCOND   EQU   15                  UNCONDITIONALLY        @DL29Y00 45300030
                           00008 28597+AVAILCHN EQU   8                   CHANNEL AVAILABLE      @DL29Y00 45330030
                           00002 28598+BUSYCHN  EQU   2                   CHANNEL BUSY           @DL29Y00 45360030

                                 28600+*****    MASKS FOR 370 INSTRS     *****                           45420030

                           00000 28602+M0       EQU   0 .                 MASK 0                       EM 45480030
                           00001 28603+M1       EQU   B'0001' .           0001                        435 45510030
                           00002 28604+M2       EQU   B'0010' .           0010                        435 45540030
                           00003 28605+M3       EQU   B'0011' .           0011                        435 45570030
                           00004 28606+M4       EQU   4 .                 MASK 4                       EM 45600030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00005 28607+M5       EQU   5 .              MASK 5                                  EM 45630030
                           00006 28608+M6       EQU   6 .              MASK 6                                  EM 45660030
                           00007 28609+M7       EQU   B'0111' .        0111                                   435 45690030
                           00008 28610+M8       EQU   B'1000' .        1000                                   435 45720030
                           0000B 28611+M11      EQU   B'1011' .        1011                                   435 45750030
                           0000C 28612+M12      EQU   B'1100' .        1100                                   435 45780030
                           0000F 28613+M15      EQU   B'1111' .        1111                                   435 45810030

                                 28615+*****    ERROR FLAG BITS        *****                                      45870030

                           00080 28617+TRUNRF   EQU   X'80' .          INDICATES NRF VERSUS SEEK CHECK            45930030
                           00010 28618+IGNERR   EQU   X'10' .          ALLOW IGNORE                               45960030
                           00004 28619+RTYERR   EQU   X'04' .          ALLOW RETRY                                45990030
                           00002 28620+NEEDSNS  EQU   X'02' .          SENSE COMMAND OUTSTANDING    @D34SDKS      46000034
                           00001 28621+OCCUP    EQU   X'01' .          THIS ENTRY NOT FREE                        46020030

                                 28623+*****    DEVICE STATUS BITS     *****                                      46080030

                           00080 28625+ATTENT   EQU   X'80' .          ATTENTION INTERRUPT                        46140030
                           00040 28626+STATMOD  EQU   X'40' .          STATUS MODIFIER                            46170030
                           00020 28627+CUEND    EQU   X'20' .          CONTROL UNIT END                           46200030
                           00010 28628+BUSY     EQU   X'10' .          DEVICE BUSY                                46230030
                           00008 28629+CHANEND  EQU   X'08' .          CHANNEL END                                46260030
                           00004 28630+DEVEND   EQU   X'04' .          DEVICE END                                 46290030
                           00002 28631+UNITCK   EQU   X'02' .          UNIT CHECK                                 46320030
                           00001 28632+UNITEXCP EQU   X'01' .          UNIT EXCEPTION                             46350030
                           00027 28633+NOTCHEND EQU   X'27' .          NOT PURE CHANNEL END                       46380030
                           0000C 28634+E3CEDE   EQU   X'0C'            CHANNEL END / DEVICE END             AM    46410030

                                 28636+*****    CHANNEL STATUS BITS    *****                                      46470030

                           00080 28638+PCI      EQU   X'80' .          PROGRAM CONTROLLED INTERRUPT               46530030
                           00040 28639+IL       EQU   X'40' .          INCORRECT LENGTH                           46560030
                           00030 28640+PRGPRT   EQU   X'30' .          PROGRAM OR PROTECTION CHECK                46590030
                           00020 28641+PGMC     EQU   X'20' .          PROGRAM CHECK                              46620030
                           00010 28642+PCK      EQU   X'10' .          PROTECTION CHECK                           46650030
                           00008 28643+CHDTA    EQU   X'08' .          CHANNEL DATA CHECK                         46680030
                           00006 28644+CHNCHK   EQU   X'06' .          CHANNEL/INTERFACE CONTROL CHECK            46710030
                           00001 28645+CHCHN    EQU   X'01' .          CHANNEL CHAIN CHECK                        46740030
                           00039 28646+CHANER   EQU   X'39' .          ANY CHANNEL ERROR                          46770030

                                 28648+*****    CHANNEL CONTROL TABLE BITS *****                                  46830030

                           00080 28650+NTOPCHN  EQU   X'80' .          CHANNEL NOT OPERATIONAL                    46890030
                           00020 28651+BLCKCHN  EQU   X'20' .          BLOCK MUTLIPLEXER CHANNEL                  46920030
                           00010 28652+MPXCHN   EQU   X'10' .          BYTE MULTIPLEXER CHANNEL                   46950030
                           00008 28653+CHNINERR EQU   X'08' .          RECOVERY IN PROCESS.DO NO IO.@D34SDAP      46960034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00001 28654+BMPXCHN  EQU   X'01' .          BURST MODE SUPPORT ON CHANNEL          46980030
                          00002 28655+BRSTCHN  EQU   X'02' .          CHANNEL RUNNING BURST                  47010030
                          00000 28656+SELCHN   EQU   X'00' .          SELECTOR CHANNEL                       47040030
                          000FD 28657+NOBRST   EQU   X'FD' .          MASK FOR RESETTING BRSTCHN             47070030

                                28659+*****    PUB CS FLAG BITS       *****                                  47280030

                          00080 28661+DEVBSY   EQU   X'80' .          DEVICE BUSY                            47340030
                          00040 28662+CHANSWCH EQU   X'40' .          SWITCHABLE DEVICE                      47370030
                          00020 28663+UCPEND   EQU   X'20' .          UNITCHECK PENDING            @D34SDKS  47400034
                          00010 28664+QEDERR   EQU   X'10' .          I/O ERROR QUEUED FOR RECOVERY          47430030
                          00008 28665+OPINTV   EQU   X'08' .          OPERATOR INTERVENTION REQUIRED         47460030
                          00002 28666+BRSDEV   EQU   X'02' .          BURST DEVICE ON MPX                    47490030
                          00001 28667+SVNTRK   EQU   X'01' .          7-TRACK TAPE                           47520030

                                28669+*****    PUB JC FLAG BITS       *****                        @DM01647  47580030

                          00004 28671+RPSDASD  EQU   X'04'            RPS DEVICE                   @DL29Y00  47640030
                          00003 28672+HQIPR    EQU   X'03' .          HEAD QUEUE.IN PROCESS        @DM01647  47670030
                          00001 28673+HQWANTED EQU   X'01' .          HEAD QUEUE.WANTED            @DM01647  47700030

                                28675+*****    FLAGS IN 1ST BYTE OF PFATAB *****                  @DS28005  47790030

                          00080 28677+PHOFLG   EQU   X'80' .          PAGE FAULT OVERL. IND.       @DS28005  47850030
                          00040 28678+SVSFLG   EQU   X'40' .          IND. PAGE FAULT FROM SV-SERV.@DS28005  47880030

                                28680+*****    SYSCOM FLAGS & SWITCHES *****                              47970030

                          00080 28682+INITERP  EQU   X'80' .          INITIAL SELECTION OF ERP               48030030
                          00020 28683+TRINT    EQU   X'20' .          TIMER INTERRUPT PENDING                48060030
                          00010 28684+SSACT    EQU   X'10' .          MICR STACKER SELECT ACTIVE             48090030
                          00008 28685+FCHERR   EQU   X'08' .          INVALID ADDRESS DURING FETCH           48120030
                          00002 28686+GETRGTE  EQU   X'02'            GETREAL IN PROGRESS INDICATOR          48150030
                          00040 28687+WAITRAS  EQU   X'40' .          RAS HAS WAIT OUTSTANDING               48180030
                          00010 28688+ALBOUND  EQU   X'10' .          ALLBOUND INDICATOR                     48210030
                          00001 28689+PDFLAG   EQU   X'01' .          SYSTEM FETCH INDICATOR FOR PDAIDS 466  48240030
                          00004 28690+AFTIOINT EQU   X'04'            I/O INTERRUPT INDICATOR      @DL29Y00  48270030

                                28692+*****    PUB DEVICE TYPE CODES  *****                               48330030

                          00000 28694+T1052    EQU   X'00' .          1052 CONSOLE                           48390030
                          000B2 28695+T125D    EQU   X'B2' .          2125 DISPLY UNIT                       48420030
                          000B2 28696+T125DP   EQU   T125D .          2125 DISPLY UNIT WITH PRINTER      AS  48450030
                          00040 28697+PRINTER  EQU   X'40' .          PRINTER                                48480030
                          00060 28698+DASD     EQU   X'60' .          DISK DRIVE                             48510030
                          00050 28699+T2400T9  EQU   X'50' .          2400 TAPE  9 TRACK                 SD  48540030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00050 28700+TAPES    EQU   T2400T9 .          TAPE DEVICE CLASS                    SD 48570030
                           00050 28701+T2400T7  EQU   T2400T9 .          2400 TAPE  7 TRACK                   SD 48600030
                           00052 28702+T3420T9  EQU   X'52' .           3420 TAPE  9 TRACK                   SD 48630030
                           00052 28703+T3420T7  EQU   T3420T9 .          3420 TAPE  7 TRACK                   SD 48660030
                           00053 28704+T3410T9  EQU   X'53' .           3410 TAPE  9 TRACK                   SD 48690030
                           00053 28705+T3410T7  EQU   T3410T9 .          3410 TAPE  7 TRACK                   SD 48720030
                           00060 28706+T2311    EQU   X'60' .           2311 DISK DRIVE                         48750030
                           00062 28707+T2314    EQU   X'62' .           2314 DISK DRIVE                         48780030
                           00061 28708+T2321    EQU   X'61' .           2321 DATA CELL DRIVE                 EB 48810030
                           00063 28709+T3330    EQU   X'63' .           3330 MOD1  DISK STORAGE      @D34DDAP 48840034
                           00065 28710+T3330B   EQU   X'65' .           3330 MOD11 DISK STORAGE      @D34DDKS 48850034
                           00068 28711+T3340    EQU   X'68' .           3340 DISK STORAGE FACILITY   @DL2W723 48870030
                           00069 28712+T334036  EQU   X'69' .           3340 35MB DISK STORAGE       @DS28003 48900030
                           0006A 28713+T334070  EQU   X'6A' .           3340 70MB DISK STORAGE       @DS28003 48930030
                           00068 28714+T3340R   EQU   T3340 .           3340 WITH RPS                @DL29Y00 48960030
                           00067 28715+T3350    EQU   X'67' .           3350 DISK STORAGE            @D34DDAP 48970034
                           00051 28716+T2495TC  EQU   X'51' .           TAPE CARTRIDGE READER                EB 48990030
                           00030 28717+T1442N1  EQU   X'30' .           1442 CRD RDR PUNCH                   EB 49020030
                           00030 28718+T2596    EQU   X'30' .           2596 CARD READER PUNCH              396 49050030
                           00022 28719+T1442N2  EQU   X'22' .           1442 PUNCH                           EB 49080030
                           00031 28720+T2520B1  EQU   X'31' .           2520B1 CARD READER PUNCH             EB 49110030
                           00011 28721+T2540R   EQU   X'11' .           2540 CARD READER                     EB 49140030
                           00011 28722+T3881    EQU   X'11'             3881 OPTICAL MARK RDR        @DL28701 49170030
                           00012 28723+T3505    EQU   X'12' .           3505 READER                         396 49200030
                           00012 28724+T3504    EQU   T3505 .           3504 READER                  @DC28928 49230030
                           00023 28725+T3525P   EQU   X'23' .           3525 PUNCH                          396 49260030
                           00032 28726+T3525RP  EQU   X'32' .           3525 READER-PUNCH                   396 49290030
                           00010 28727+T2501    EQU   X'10' .           2501 CARD READER                     EB 49320030
                           00000 28728+T1050A   EQU   X'00' .           1052 PRINTER KEYBOARD                EB 49350030
                           00021 28729+T2540P   EQU   X'21' .           2540 CARD PUNCH                      EB 49380030
                           00020 28730+T2520B3  EQU   X'20' .           2520B3 CARD PUNCH                    EB 49410030
                           00020 28731+T2520B2  EQU   X'20' .           2520B2 CARD PUNCH                    EB 49440030
                           00040 28732+T1403    EQU   X'40' .           1403 PRINTER                         EB 49470030
                           00041 28733+T1443    EQU   X'41' .           1443 PRINTER                         EB 49500030
                           00042 28734+T1403U   EQU   X'42' .           1403 PRINTER WITH UCS                EB 49530030
                           00043 28735+T3211    EQU   X'43' .           3211 HIGH SPEED PRINTER             396 49560030
                           00045 28736+T3800    EQU   X'45'             3800 HIGH SPEED PRINTER      @D34YDFS 49566034
                           00045 28737+T3800B   EQU   X'45'             3800 HIGH SPEED PRINTER      @D34YDFS 49570034
                           00045 28738+T3800C   EQU   X'45'             3800 HIGH SPEED PRINTER      @D34YDFS 49574034
                           00045 28739+T3800BC  EQU   X'45'             3800 HIGH SPEED PRINTER      @D34YDFS 49578034
                           00044 28740+T2245    EQU   X'44' .           KANJI PRINTER                       396 49590030
                           0004A 28741+T3203    EQU   X'4A' .                3203 PRINTER            @DL29355 49620030
                           00043 28742+TPRT1    EQU   X'43' .              3203-4  PRINTER           @D34CDFS 49630034
                           0004C 28743+T5203    EQU   X'4C' .                5203 PRINTER            @DL29355 49650030
                           0004D 28744+T5203U   EQU   X'4D' .                5203U PRINTER           @DL29355 49680030
                           00070 28745+T2671    EQU   X'70' .           2671 PAPER TAPE READER               EB 49710030
                           00077 28746+T1287    EQU   X'77' .           1287 OPTICAL READER                  EB 49740030
                           00077 28747+T1288    EQU   T1287 .           1288 OPTICAL READER                  EB 49770030
                           0007C 28748+T3886    EQU   X'7C'                3886 OPTICAL READER       @DL28702 49800030
                           00078 28749+T1017    EQU   X'78' .           1017 PAPER TAPE READER               EB 49830030
                           00079 28750+T1018    EQU   X'79' .           1018 PAPER TAPE PUNCH                EB 49860030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          000D5 28751+T1017TP  EQU   X'D5' .          1017 PAPER TAPE READER TP          EB 49890030
                          000D6 28752+T1018TP  EQU   X'D6' .          1018 PAPER TAPE PUNCH              EB 49920030
                          00033 28753+T2560    EQU   X'33'            MFCM                             WL 49950030
                          00034 28754+T5425    EQU   X'34'            MFCU                          @DL2994J 49980030
                          00073 28755+T1419P   EQU   X'73' .          MICR DEVICE PRIMARY CONTROL  UNIT  EB 50010030
                          00074 28756+T1419S   EQU   X'74' .          MICR DEV. SECONDARY CONTR.         EB 50040030
                          00072 28757+T1419    EQU   X'72' .          1419 MICR DEVICE                   EB 50070030
                          0007D 28758+T3895    EQU   X'7D'            3895 INSCRIBER                @D34MEC8 50080034
                          000D0 28759+T2701    EQU   X'D0' .          2701 LINE ADAPTER UNIT             EB 50100030
                          000D1 28760+T2702    EQU   X'D1' .          2702 TRANSMISSION CONTROL UNIT     EB 50130030
                          000D1 28761+T2702A   EQU   X'D1' .          2702 TRANS. CONTROL UNIT SAD0@DM03078 50160030
                          000D1 28762+T2702B   EQU   X'D1' .          2702 TRANS. CONTROL UNIT SAD1@DM03078 50190030
                          000D1 28763+T2702C   EQU   X'D1' .          2702 TRANS. CONTROL UNIT SAD2@DM03078 50220030
                          000D1 28764+T2702D   EQU   X'D1' .          2702 TRANS. CONTROL UNIT SAD3@DM03078 50250030
                          000D2 28765+T2703    EQU   X'D2' .          2703 TRANSMISSION CONTROL          EB 50280030
                          000DC 28766+T3705    EQU   X'DC' .        3705 COMMUNICATIONS CONTROLLER @DM11561 50310031
                          000DE 28767+T3791L   EQU   X'DE'            3791 CONTROL UNIT              @DM11853 50312032
                          000DE 28768+TLCA2    EQU   X'DE' .        LCA2 LOCAL DISPLAY             @D34HDFS 50316034
                          000DC 28769+T3704    EQU   T3705 .        3704 COMMUNICATIONS CONTROLLER @DM11561 50320031
                          000C0 28770+T2260    EQU   X'C0' .          2260 DISPLAY STATION               EB 50340030
                          000D3 28771+T7770    EQU   X'D3' .          7770 AUDIO RESPONSE UNIT           EB 50370030
                          000D7 28772+T2955    EQU   X'D7' .          RETAIN/370 INTERFACE DEVICE       RJI 50400030
                          00080 28773+T3540    EQU   X'80'            3540 DISKETTE READER          @DL29R01 50430030
                          000B0 28774+TTP      EQU   X'B0' .          LOWER DEVICE TYPE FOR TP            396 50610030
                          000B0 28775+T3277    EQU   X'B0' .                                              396 50640030
                          000B0 28776+T3277B   EQU   T3277 .                                              396 50670030
                          000FF 28777+TUNSP    EQU   X'FF' .        UNSUPPORTED DEVICE                   EB 50700030
                          000FF 28778+TUNSPB   EQU   X'FF' .        UNSUPPORTED DEVICE                   EB 50730030


                                28780+*****    CHANNEL SCHEDULER FLAGS  *****                            50790030

                          00002 28782+NBTFLG   EQU   X'02' .          BURST OR OVERRUNNABLE                50850030
                          00002 28783+M2400T9  EQU   NBTFLG .         CH SCD FLAG BYTE FOR 2400T9          SD 50880030
                          00003 28784+M2400T7  EQU   M2400T9+SVNTRK . CH SCD FLAG BYTE FOR 2400T7          SD 50910030
                          00002 28785+M3420T9  EQU   NBTFLG .         CH SCD FLAG BYTE FOR 3420T9          SD 50940030
                          00003 28786+M3420T7  EQU   M2400T7 .         CH SCD FLAG BYTE FOR 3420T7          SD 50970030
                          00002 28787+M3410T9  EQU   NBTFLG .         CH SCD FLAG BYTE FOR 3410T9          SD 51000030
                          00003 28788+M3410T7  EQU   M2400T7 .         CH SCD FLAG BYTE FOR 3410T7          SD 51030030
                          00000 28789+M2495TC  EQU   X'00' .          TAPE CARTRIDGE READER                EB 51060030
                          00002 28790+M1442N1  EQU   NBTFLG .         1442 CARD READER PUNCH               EB 51090030
                          00002 28791+M2596    EQU   NBTFLG .                                           @DM05237 51120030
                          00000 28792+M1442N2  EQU   X'00' .          1442 PUNCH                           EB 51150030
                          00002 28793+M2520B1  EQU   NBTFLG .         2520B1 CARD READER PUNCH             EB 51180030
                          00000 28794+M2540R   EQU   X'00' .          2540R CARD READER                    EB 51210030
                          00000 28795+M3881    EQU   M2540R           CH SCD FLAG BYTE                  @DL28701 51240030
                          00002 28796+M2501    EQU   NBTFLG .         2501 CARD READER                     EB 51270030
                          00000 28797+M1050A   EQU   X'00' .          1052 PRINTER KEYBOARD                EB 51300030
                          00000 28798+M125D    EQU   X'00' .          2125 DISPLY UNIT                     AS 51330030
                          00001 28799+M125DP   EQU   X'01' .          2125 DISPLY UNIT WITH PRINTER        AS 51360030
                          00000 28800+M2540P   EQU   X'00' .          2540PCARD PUNCH                      EB 51390030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00000 28801+M2520B3  EQU   X'00' .          2520B3                              EB 51420030
                          00000 28802+M2520B2  EQU   X'00' .          2520B2                              EB 51450030
                          00000 28803+M3505    EQU   X'00' .          3505 CH SCD FLAG BYTE              396 51480030
                          00000 28804+M3504    EQU   M3505 .          3504 CH SCD FLAG BYTE          @DC28928 51510030
                          00000 28805+M3525P   EQU   X'00' .          3525 CH SCD FLAG BYTE              396 51540030
                          00000 28806+M3525RP  EQU   X'00' .          3525 CH SCD FLAG BYTE              396 51570030
                          00002 28807+M1287    EQU   NBTFLG .         1287 OPTICAL READER                EB 51600030
                          00002 28808+M1288    EQU   NBTFLG .         1288 OPTICAL READER                EB 51630030
                          00000 28809+M3886    EQU   X'00'                 3886 OPTICAL READER       @DL28702 51660030
                          00002 28810+M2311    EQU   NBTFLG .         2311 DISK DRIVE                    EB 51690030
                          00002 28811+M2321    EQU   NBTFLG .         2321 DATA CELL DRIVE               EB 51720030
                          00002 28812+M2314    EQU   NBTFLG .         2314 DISK STORAGE FACILITY         EB 51750030
                          00002 28813+M3330    EQU   NBTFLG .         3330 DISK STORAGE FACILITY         EB 51780030
                          00002 28814+M3330B   EQU   M3330 .          3330-11 DISK STORAGE FAC.      @D34DDKS 51790034
                          00002 28815+M3340    EQU   NBTFLG .         3340 DISK STORAGE FACILITY     @DL2W723 51810030
                          00002 28816+M3340R   EQU   M3340            3340 WITH RPS                  @DL29Y00 51840030
                          00002 28817+M3350    EQU   NBTFLG .         3350 DISK STORAGE FACILITY     @D34DDAP 51850034
                          00000 28818+M1403    EQU   X'00' .          1403 PRINTER                       EB 51870030
                          00000 28819+M1443    EQU   X'00' .          1443 PRINTER                       EB 51900030
                          00000 28820+M1403U   EQU   X'00' .          1403 PRINTER WITH UCS              EB 51930030
                          00000 28821+M3211    EQU   X'00' .          CH SCH FLAGS HIGH SPEED PRINTER   396 51960030
                          00000 28822+M3800    EQU   X'00' .          CH SCH FLAGS 3800 PRINTER      @D34YDFS 51966034
                          00000 28823+M3800B   EQU   X'00' .          CH SCH FLAGS 3800 PRINTER      @D34YDFS 51970034
                          00000 28824+M3800C   EQU   X'00' .          CH SCH FLAGS 3800 PRINTER      @D34YDFS 51974034
                          00000 28825+M3800BC  EQU   X'00' .          CH SCH FLAGS 3800 PRINTER      @D34YDFS 51978034
                          00000 28826+M2245    EQU   X'00' .          CH SCH FLGS KANJI PRINTER          396 51990030
                          00000 28827+M3203    EQU   X'00' .          CH.SCD. FLAGS                  @DL29355 52020030
                          00000 28828+MPRT1    EQU   X'00' .          CH.SCD. FLAGS 3203-4 PRINTER   @D34CDFS 52030034
                          00000 28829+M5203    EQU   X'00' .          CH.SCD. FLAGS                  @DL29355 52050030
                          00000 28830+M5203U   EQU   X'00' .          CH.SCD. FLAGS                  @DL29355 52080030
                          00000 28831+M2671    EQU   X'00'            2671 PAPER TAPE READER         @DA05687 52110032
                          00002 28832+M1419P   EQU   NBTFLG .         1419P MAGNETIC CHARACTER READER    EB 52140032
                          00002 28833+M1419S   EQU   NBTFLG .         1419S MAGNETIC CHARACTER READER    EB 52170030
                          00002 28834+M1419    EQU   NBTFLG .         1419 MAGNETIC CHARACTER READER     EB 52200030
                          00000 28835+M3895    EQU   X'00'            3895 CHAN SCHED FLAGS          @D34MEC8 52210034
                          00000 28836+M2701    EQU   X'00' .          2701 LINE ADAPTER UNIT             EB 52230030
                          00000 28837+M2702    EQU   X'00' .          2702 TRANSMISSION CONTROL UNIT     EB 52260030
                          00000 28838+M2702A   EQU   X'00' .          2702 TRANS. CONTROL UNIT       @DM03078 52290030
                          00000 28839+M2702B   EQU   X'00' .          2702 TRANS. CONTROL UNIT       @DM03078 52320030
                          00000 28840+M2702C   EQU   X'00' .          2702 TRANS. CONTROL UNIT       @DM03078 52350030
                          00000 28841+M2702D   EQU   X'00' .          2702 TRANS. CONTROL UNIT       @DM03078 52380030
                          00000 28842+M2703    EQU   X'00' .          2703 TRANSMISSION CONTROL          EB 52410030
                          00000 28843+M3705    EQU   X'00' .        3705 COMMUNICATIONS CONTROLLER   @DM11561 52440031
                          00000 28844+M3791L   EQU   X'00'            3791 CONTROL UNIT              @DM11853 52442032
                          00000 28845+MLCA2    EQU   X'00' .        LCA2 LOCAL DISPLAY             @D34HDFS 52446034
                          00000 28846+M3704    EQU   M3705 .        3704 COMMUNICATIONS CONTROLLER   @DM11561 52450031
                          00000 28847+M2260    EQU   X'00' .          2260 DISPLAY STATION               EB 52470030
                          00000 28848+M7770    EQU   X'00' .          7770 AUDIO RESPONSE UNIT           EB 52500030
                          00000 28849+M3277    EQU   X'00' .                                            396 52530030
                          00002 28850+M3277B   EQU   X'02' .                                            396 52560030
                          00000 28851+M1017    EQU   X'00' .            1017 PAPER TAPE READER           EB 52590030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00000 28852+M1018    EQU   X'00' .          1018 PAPER TAPE PUNCH                EB 52620030
                          00000 28853+M1017TP  EQU   X'00' .          1017 PAPER TAPE READER TP            EB 52650030
                          00000 28854+M1018TP  EQU   X'00' .          1018 PAPER TAPE PUNCH TP             EB 52680030
                          00000 28855+M2560    EQU   X'00' .          MFCM                                 WL 52710030
                          00000 28856+M5425    EQU   X'00' .          MFCU                              @DL2994J 52740030
                          00000 28857+M2955    EQU   X'00' .          RETAIN/370 CHAN SCHED. FLAGS       RJI 52770030
                          00000 28858+MUNSP    EQU   X'00' .          UNSUPPORTED DEVICE                   EB 52830030
                          00002 28859+MUNSPB   EQU   NBTFLG .         UNSUPPORTED DEVICE                   EB 52860030
                          00002 28860+M3540    EQU   NBTFLG                                             @DL29R01 52890030

                                28862+*****    CCB COMMUNICATION BITS   *****                                 52950030

                          00080 28864+TRABIT   EQU   X'80' .          TRAFFIC BIT                               53010030
                          00040 28865+EOF      EQU   X'40' .          END OF FILE                               53040030
                          00020 28866+DISERR   EQU   X'20' .          DISASTER ERROR                            53070030
                          00010 28867+ACCUNRIO EQU   X'10' .          ACCEPT UNRECOVERABLE I/O ERROR            53100030
                          00004 28868+POSTDE   EQU   X'04' .          DEVICE END POSTING REQUIRED               53130030
                          00001 28869+OWNUCRT  EQU   X'01' .          USER OWN UNIT CHECK ROUTINE               53160030

                          00080 28871+PDNOPR   EQU   X'80' .          MICR - SCU NOT OPERATIONAL                53220030
                          00040 28872+TRKOFL   EQU   X'40' .          TRACK OVERFLOW                      IB3.5 53250030
                          00040 28873+E3TKOF   EQU   X'40' .          TRACK OVERFLOW                        AM 53280030
                          00020 28874+EOC      EQU   X'20' .          END OF CYLINDER                           53310030
                          00020 28875+DISENG   EQU   X'20' .          MICR-DISENGAGE                            53340030
                          00020 28876+PDEIOERR EQU   X'20' .          MICR - EXT I/O INTERRUPT ERROR            53370030
                          00008 28877+NORCDFND EQU   X'08' .          NO RECORD FOUND                           53400030
                          00004 28878+NRFRETRY EQU   X'04' .          USER WANTS RETRY ON NRF CONDITION         53430030
                          00002 28879+CHAN9    EQU   X'02' .          CHANNEL 9 OVERFLOW                        53460030
                          00001 28880+CHNBIT   EQU   X'01' .          COMMAND CHAIN BIT                         53490030

                          00080 28882+FAST2501 EQU   X'80' .          READ AHEAD ON 2501 IF SYSIN  @D33FDAP 53530033

                          00080 28884+ERRTIN   EQU   X'80' .          BIT INDICATING ERP CCB                    53550030
                          00040 28885+APPEN    EQU   X'40' .          TP APPENDAGE AVAILABLE                    53580030
                          00020 28886+USENSE   EQU   X'20' .          USER WANTS SENSE                          53610030
                          00004 28887+OLTP     EQU   X'04' .          OLTEP APPENDAGE AVAILABLE                 53640030
                          00001 28888+SKSEP    EQU   X'01' .          SEEK SEPARATION                        SS 53670030

                          0001F 28890+CLRCOM1  EQU   X'1F' .          CLEAR BITS FOR CCB BYTE 2             191 53730030
                          00005 28891+CLRCOM2  EQU   X'05' .          CLEAR BITS FOR CCB BYTE 3             191 53760030

                                28893+*        FLAGS IN CCBCLS BYTE                                       EM 53820030

                          00080 28895+XCPR     EQU   X'80' .          EXCP WITH PARAM.REAL                      EM 53880030
                          00040 28896+BTAM     EQU   X'40' .          BTAM I/O REQUEST                          EM 53910030
                          00020 28897+CCBCOPY  EQU   X'20' .          COPIED CCB                                EM 53940030
                          00060 28898+BTTR     EQU   X'60' .          TRANSLATED BTAM REQUEST                   EM 53970030
                          00008 28899+CCBPHYAD EQU   X'08' .          PHYSICAL ADDRESSING IS USED  @D34SDEM 53980034
                          00036 28900+NOLUBV   EQU   X'36' .          BITS MUST BE ZERO IN USER CCB@D34SDEM 54000034
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 28902+*        FLAGS IN CCBFLAG(IN COPIED CCB)                                EM 54060030

                           00080 28904+XCOMPL   EQU   X'80' .           TRANSLATION OF THIS REQU.COMPLETE  EM 54120030
                           00040 28905+TTFIX    EQU   X'40' .           ANY PAGE TO BE FIXED               EM 54150030
                                 28906+*                               BTAM AND PFIX SPECIFIED               54210030
                           00010 28907+BTAM2    EQU   X'10' .           BTAM SECOND TIME AROUND            EM 54240030
                           00008 28908+FASTTR   EQU   X'08'             FAST TRANSLATABLE            @D32XDRP 54276032
                           00004 28909+SAVEDQ   EQU   X'04'             CCB COPY BLOCK ON            @D32XDRP 54282032
                                 28910+*                               SAVED-CCB-COPY-BLOCK-QUEUE   @D32XDRP 54288032
                           00002 28911+FXREQD   EQU   X'02'             DATA AREA PAGES REQUIRE FIXIN@D32XDRP 54294032


                                 28913+*****    FLAGS IN TFIXIDEN BYTE                                 @DS28005 54330030
                           00080 28914+SVC44IDN EQU   X'80' .           PAGES FIXED BY SVC44           @DS28005 54360030
                           00040 28915+SDAIDIDN EQU   X'40' .           PAGES FIXED BY SDAID           @DS28005 54390030


                                 28917+*****    PGTBIND FLAG BITS                                      @DL2982F 54450030
                                 28918+*TRABIT  EQU   X'80' .           PAGEIN COMPLETED               @DL2982F 54480030
                           00040 28919+PGTFULL  EQU   X'40' .           PAGETAB IS FULL                @DL2982F 54510030
                           00020 28920+INVPG    EQU   X'20' .           INVALID ADDR                   @DL2982F 54540030
                           00010 28921+LENGNEG  EQU   X'10' .           NEGATIV LENGTH                 @DL2982F 54570030
                           00008 28922+INVLI    EQU   X'08' .           ADDR LIST NOT COMPL. IN PART   @DL2982F 54600030
                           00004 28923+TERMLL   EQU   X'04' .           PAGING ACT TOO HIGH            @DL2982F 54630030
                           00002 28924+TERMIN   EQU   X'02' .           REQU TASK TERMINATES           @DL2982F 54660030


                                 28926+*****    TCB FLAG BITS                                                EM 54720030
                           00080 28927+TCBDC    EQU   X'80' .           DATA CHAINING SPECIFIED              EM 54750030
                           00040 28928+TCBRDS   EQU   X'40' .           READ/SENSE COMMAND SPECIFIED         EM 54780030
                           00020 28929+TCBRDB   EQU   X'20' .           READ BACKWARD COMMAND SPECIFIED      EM 54810030
                           00010 28930+TCBSM1   EQU   X'10' .           STATUS MODIFIER COMMAND AND DC       EM 54840030
                           00008 28931+TCBSM2   EQU   X'08' .           STATUS MODIFIER COMMAND              EM 54870030
                           00004 28932+VNER     EQU   X'04' .           ANY VIRTUAL ADDRESS NOT EQUAL REAL   EM 54900030
                           00002 28933+REPLCR   EQU   X'02'             REPLICA CREATION ACTIVE        @DM14590 54910032
                           00001 28934+RFLAG    EQU   X'01'             REPLICA CREATION FLAG          @D32XDRP 54920032


                                 28936+*****    EQUATES FOR BTAM ADDITIONAL COPY BLOCK INF.                  EM 54990030

                           00001 28938+UBTAMCB  EQU   CCBCNT+1 .        USED COPY BLOCKS FOR BTAM            EM 55050030
                           00001 28939+TBTAMCB  EQU   CCBCNT+1 .        TOTAL COPY BLOCKS FOR BTAM           EM 55080030

                           000FF 28941+SPECHIO  EQU  X'FF' .            INDICATES NOP REQUEST FOR BTA@D32XDRP 55110132
                                 28942+*        FLAG IN DIDAL-ENTRY (2ND FULLWORD)                     @D32XDRP 55115032
                                 28943+*                                                               @D32XDRP 55120032
                           00080 28944+FXD      EQU   X'80'             PAGE ALREADY FIXED             @D32XDRP 55125032
                           00001 28945+NOWFXD   EQU   X'01'             PAGE FIXED AT THIS MOMENT      @D32XDRP 55130032

                                 28947+*****    DEFIXSW BITS                                           @D32XDRP 55135532
                                 28948+*              X'01'-X'10'       INDICATES GETREAL OR PFIX IN   @D32XDRP 55135632
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 28949+*                                PROCESS ONE BIT IS USED      @D32XDRP 55135732
                                 28950+*                                PER PARTITION                @D32XDRP 55135832
                           00080 28951+LLDEFIX  EQU   X'80'              DEFIXING REQU.FROM LOAD HEAD.@D32XDRP 55135932

                                 28953+*****    SENSE INFORMATION BITS  *****                                 55200030

                           00080 28955+COMREJ   EQU   X'80' .           COMMAND REJECT                        55260030
                           00060 28956+TOVEREOC EQU   X'60' .           TRACK OVERRUN OR END OF CYLINDER      55290030
                           00040 28957+INTVRQD  EQU   X'40' .           INTERVENTION REQUIRED                 55320030
                           00020 28958+BUSOUT   EQU   X'20' .           BUS OUT PARITY CHECK            IB3.5 55350030
                           00024 28959+BUSTOVER EQU   X'24'             BUS OUT OR OVERRUN                AM  55380030
                           00020 28960+E3BOP    EQU   X'20' .           BUS OUT PARITY CHECK              AM  55410030
                           00010 28961+EQUIPCHK EQU   X'10' .           EQUIPMENT CHECK                       55440030
                           00008 28962+DATACHK  EQU   X'08' .           DATA CHECK                            55470030
                           00004 28963+OVERRUN  EQU   X'04' .           OVERRUN                         IB3.5 55500030
                           00004 28964+E3ORUN   EQU   X'04' .           OVERRUN                           AM  55530030
                           00002 28965+MISSMARK EQU   X'02' .           MISSING MARKER                        55560030
                           00002 28966+TRCNDCHK EQU   X'02' .           TRACK CONDITION CHECK                 55590030
                           00001 28967+SEEKCHK  EQU   X'01' .           SEEK CHECK                            55620030
                           00001 28968+CHANN9   EQU   X'01' .           CHANNEL 9 OVERFLOW                    55650030
                           00003 28969+SIZEBITS EQU   X'03'             3340 CARTRIDGE SIZE BITS      @DL2W723 55680030

                           00080 28971+E3PERM   EQU   X'80' .           PERMANENT ERROR                       55740030
                           00040 28972+E3ITF    EQU   X'40' .           INVALID TRACK FORMAT                  55770030
                           00020 28973+E3EOC    EQU   X'20' .           END OF CYLINDER                       55800030
                           00008 28974+E3NRF    EQU   X'08' .           NO RECORD FOUND                       55830030
                           00004 28975+E3FP     EQU   X'04' .           FILE PROTECT                          55860030
                           00001 28976+E3INC    EQU   X'01' .           OPERATION INCOMPLETE                  55890030
                                 28977+*        BYTE 2                                                       55920030
                           00040 28978+E3COR    EQU   X'40' .           CORRECTABLE ERROR                     55950030
                           00010 28979+E3EVD    EQU   X'10' .           ENVIRONMENTAL DATA PRESENT            55980030
                                 28980+*        EXTENDED SENSE                                               56010030
                           0001C 28981+COUNTID  EQU   28 .              OFFSET TO RESTART CCHHR         HKU 56040030
                           00023 28982+SNSCLOCK EQU   35 .              OFFSET TO CLOCK BYTES           HKU 56070030
                           00026 28983+SNSDISP  EQU   38 .              OFFSET TO REAR DISPLACEMENT     HKU 56100030
                           00028 28984+SNSECC   EQU   40 .              OFFSET TO CORRECTION CODE       HKU 56130030
                           0002B 28985+SNSXFLG  EQU   43 .              OFFSET TO EXTENDED SENSE        HKU 56160030
                           00001 28986+E3CTRUNC EQU   X'01' .           CHANNEL TRUNCATION                    56190030


                                 28988+*****    ECF CONSTANTS           *****                                 56250030
                           00001 28989+E3K1     EQU   1 .               FIRST OCCURANCE OF ERROR              56280030
                           00003 28990+E3K3     EQU   3 .               ECF LOOP COUNT                        56310030


                                 28992+*****    CCW COMMAND CODES       *****                                 56370030

                           00001 28994+WRITE    EQU   X'01' .           WRITE WITHOUT CARRIAGE RETURN         56430030
                           00002 28995+RDCOM    EQU   X'02' .           READ COMMAND.                         56460030
                           00003 28996+CONTROL  EQU   X'03' .           CONTROL COMMAND                  EM   56490030
                           00003 28997+NOP      EQU   X'03' .           NOP COMMAND                           56520030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00003 28998+NOOP     EQU   X'03' .          NOP COMMAND                                56550030
                          00004 28999+RSENS    EQU   X'04' .          READ SENSE                                 56580030
                          00005 29000+ERASWRIT EQU   X'05' .          ERASE WRITE ON CRT                   AS    56610030
                          00007 29001+SEEK     EQU   X'07' .          SEEK                                       56640030
                          00008 29002+TIC      EQU   X'08' .          TRANSFER IN CHANNEL                        56670030
                          0000C 29003+READB    EQU   X'0C' .          READ BACKWARD                        EM    56700030
                          00009 29004+WRACR    EQU   X'09' .          WRITE WITH AUTO CARRIAGE RETURN            56730030
                          0000E 29005+RDKYDATA EQU   X'0E'             READ KEY AND DATA                  @DL29ZCJ 56760030
                          00010 29006+E3CTOP   EQU   X'10' .          ANY COUNT OPERATION                        56790030
                          00012 29007+E3RDCT   EQU   X'12' .          READ COUNT                                 56820030
                          00013 29008+RECAL    EQU   X'13' .          RECALIBRATE                                56850030
                          00016 29009+READR0   EQU   X'16' .          READ RECORD ZERO                           56880030
                          00017 29010+ERG      EQU   X'17' .          ERG COMMAND                                56910030
                          0001A 29011+RDHOM    EQU   X'1A' .          READ HOME ADDRESS                          56940030
                          0001B 29012+TIE      EQU   X'1B' .          REQUEST TIE COMMAND                        56970030
                          0001D 29013+WCKD     EQU   X'1D' .          WRITE COUNT, KEY AND DATA                  57000030
                          0001F 29014+SFM      EQU   X'1F' .          SET FILE MASK                              57030030
                          00031 29015+SEARCH   EQU   X'31' .          SEARCH                                     57060030
                          00039 29016+SEARCHA  EQU   X'39' .          SEARCH HOME ADDRESS                        57090030
                          0005B 29017+COMPCOM  EQU   X'5B' .          COMPARE COMMAND                    @DS28005 57120030
                          0005E 29018+RDMCKD   EQU   X'5E'            READ MULTIPLE COUNT/KEY/DATA       @DY20090 57130034
                          00069 29019+SCHKHE   EQU   X'69'            SEARCH KEY HIGH OR EQUAL           @DL29ZCJ 57150030
                          00077 29020+ANYTIC   EQU   X'77' .          TIC AND END TIC                      EM    57180030
                          00086 29021+READDATA EQU   X'86' .          READ DATA                                  57210030
                          00092 29022+READCNT  EQU   X'92' .          READ COUNT                                 57240030
                          00093 29023+STMODE   EQU   X'93' .          SET MODE                                   57270030
                          000F0 29024+INVCODE  EQU   X'F0' .          STANDARD INVALID COMMAND             EM    57300030
                          000B1 29025+SEARCHMT EQU   X'B1'            SEARCH ID EQUAL, MULTITRACK        @DL29ZCJ 57330030
                          000CF 29026+PDPKR    EQU   X'CF' .          REJECT POCKET COMMAND CODE                 57360030
                          000DF 29027+PDGE     EQU   X'DF' .          BATCH NUMBERING COMMAND CODE               57390030
                          000E1 29028+CREATUC  EQU   X'E1' .          CREATE UC COMMAND CODE               435   57420030
                          000E9 29029+SCHKHEMT EQU   X'E9'            SCH KEY HI OR =, MULTITRACK        @DL29ZCJ 57450030
                          00080 29030+MULTITRK EQU   X'80'            MASK FOR MULTITRACK COM CODE       @DL29ZCF 57480030

                                29032+*****    CCW FILE MASKS        ***                                        57570030

                          00000 29034+WHAWR0   EQU   X'00' .          INHIBIT WRITE HOME ADDRESS AND R0          57630030
                          00010 29035+INHSEEK  EQU   X'10' .          INHIBIT LONG SEEK                          57660030
                          00040 29036+INHWRITE EQU   X'40' .          INHIBIT WRITE                              57690030
                          00018 29037+INHALLSK EQU   X'18'            INHIBIT ALL SEEKS                  @DA08968 57700033

                                29039+*****    PIBFLAG BITS          *****                                      57780030

                          008E6 29041+RETAB    EQU   TRTMSK-X'80' .                                       EM    57840030
                          00028 29042+GATENR   EQU   TRTMASK-RETAB .  DISPL.TO FIRST BYTE IN RETAB        EM    57870030
                          00029 29043+AMBNDBG     EQU TRTAMBG-RETAB   USED BY VSAM                       @DS28005 58020030
                          0003D 29044+GTVSBG     EQU TRTGVBG-RETAB    TO MAKE TASK GETVIS BOUND         @D34RDKS 58064034
                          0004B 29045+BNDBG     EQU  TRTBG-RETAB     . TO MAKE TASK PFIX-BOUND          @DS28005 58110030
                          00059 29046+LLBNDBG     EQU TRTLLBG-RETAB   TO SET TASK LL BOUND              @DS28005 58170030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          0002B 29047+AMBNDF4     EQU TRTAMF4-RETAB     USED BY VSAM                 @DS28005 58020030
                          0003F 29048+GTVSF4     EQU TRTGVF4-RETAB       TO MAKE TASK GETVIS BOUND   @D34RDKS 58064034
                          0004D 29049+BNDF4     EQU  TRTF4-RETAB     .  TO MAKE TASK PFIX-BOUND     @DS28005 58110030
                          0005B 29050+LLBNDF4     EQU TRTLLF4-RETAB     TO SET TASK LL BOUND        @DS28005 58170030
                          0002D 29051+AMBNDF3     EQU TRTAMF3-RETAB     USED BY VSAM                @DS28005 58020030
                          00041 29052+GTVSF3     EQU TRTGVF3-RETAB       TO MAKE TASK GETVIS BOUND   @D34RDKS 58064034
                          0004F 29053+BNDF3     EQU  TRTF3-RETAB     .  TO MAKE TASK PFIX-BOUND     @DS28005 58110030
                          0005D 29054+LLBNDF3     EQU TRTLLF3-RETAB     TO SET TASK LL BOUND        @DS28005 58170030
                          0002F 29055+AMBNDF2     EQU TRTAMF2-RETAB     USED BY VSAM                @DS28005 58020030
                          00043 29056+GTVSF2     EQU TRTGVF2-RETAB       TO MAKE TASK GETVIS BOUND   @D34RDKS 58064034
                          00051 29057+BNDF2     EQU  TRTF2-RETAB     .  TO MAKE TASK PFIX-BOUND     @DS28005 58110030
                          0005F 29058+LLBNDF2     EQU TRTLLF2-RETAB     TO SET TASK LL BOUND        @DS28005 58170030
                          00031 29059+AMBNDF1     EQU TRTAMF1-RETAB     USED BY VSAM                @DS28005 58020030
                          00045 29060+GTVSF1     EQU TRTGVF1-RETAB       TO MAKE TASK GETVIS BOUND   @D34RDKS 58064034
                          00053 29061+BNDF1     EQU  TRTF1-RETAB     .  TO MAKE TASK PFIX-BOUND     @DS28005 58110030
                          00061 29062+LLBNDF1     EQU TRTLLF1-RETAB     TO SET TASK LL BOUND        @DS28005 58170030
                          00069 29063+G41BND   EQU   TRTG41-RETAB .     TO MAKE TASK SVC41/42 BOUND @DS28005 58290030
                          00067 29064+G38BND   EQU   TRTG38-RETAB .     TO MAKE TASK SVC 38 BOUND   @DS28005 58320030
                          0007B 29065+CCWBND   EQU   TRTCCW-RETAB .     TO MAKE TASK WAIT.          @DS28005 58440030
                                29066+*                                 FOR CCW-TRANSLATION         @DS28005 58470030
                          0006D 29067+PFGBND   EQU   TRTPFG-RETAB .     TO MAKE TASK WAIT.FOR NEXT FREED PAGE 58500030
                          00075 29068+BUFBND   EQU   TRTBUF-RETAB .     TO MAKE TASK WAIT.FOR COPY BUFFER  EM 58530030
                          0006F 29069+IDRABND  EQU   TRTIDRA-RETAB .    TO SET TASK IDRA-BOUND      @DM01938 58620030
                          00077 29070+FIXBND   EQU   TRTFIX-RETAB .     TO MAKE TASK WAITING FOR TFREE     EM 58680030
                          00079 29071+CHQBND   EQU   TRTCHQ-RETAB .     TO MAKE TASK WAIT.FOR CHAN.QU.ENTRYEM 58710030
                          00071 29072+G58BND   EQU   TRTG58-RETAB .     TO MAKE TASK WAITING FOR SVC 58    EM 58740030
                          00073 29073+SEIZEBND EQU   TRTSEIZE-RETAB .   TO MAKE TASK WAIT.IF SYST.IS SEIZEDEM 58770030
                          0007D 29074+CBFBND   EQU   TRTCBF-RETAB .     MAKE TASK WAIT.IF NO CB FREE @DM02266 58800030
                          0007F 29075+G92BND   EQU   TRTG92-RETAB .     WAIT IF XECB TABLE IN USE    @D34XDJO 58810034
                          00097 29076+PWSRVBND EQU   TRTPWSRV-RETAB     POWER SERVICE BOUND          @DY15975 58826034
                          00083 29077+READY    EQU   X'83' .            READY TO RUN                          58830030
                          00080 29078+NOTACT   EQU   X'80' .            TASK NOT ACTIVE                       58860030
                          00081 29079+LTABND   EQU   X'81' .            PIBFLAG SVC2 BOUND                    58890030
                          000FE 29080+IOBOND   EQU   X'FE' .            TO MAKE TASK I/O BOUND             AP 58920030
                          00082 29081+IOBND    EQU   X'82' .            I/O BOUND                             58950030
                          00085 29082+PTABND   EQU   X'85' .            PIB FLAG PTA BOUND                    58980030
                          00086 29083+INITRAS  EQU   X'86' .            INITIAL SELECT. OF RAS       @DS28005 59010030
                          00087 29084+BOUND    EQU   X'87' .            COMMON WAIT STATE FOR USER TASKS   FR 59040030
                          0008B 29085+QTBND    EQU   X'8B' .            TASK IN QTAM WAIT                  EM 59070030

                          000FB 29087+RCOMPL   EQU   X'FB' .            TO MAKE (S)BOUND TO (S)READY       FR 59130030
                          00001 29088+IOCMPL   EQU   X'01' .            I/O COMPLETE                          59160030
                          00003 29089+READYLTA EQU   X'03' .            READY LTA FOR TRTLTK FIELD         AP 59190030
                          00008 29090+QSVCPIBF EQU   X'08' .            PIBFLAG FOR QTAM WAIT                 59220030
                          00020 29091+JOBDUN   EQU   X'20' .            EOJ FOR SYSRDR OR SYSIPT     @D349DKS 59230034

                                29093+*****    PIBDATFLAGS                                            EM 59280030

                          00001 29095+CSVRET   EQU   X'01' .            RETURN TO RE-ENTR. SV RTN          EM 59340030
                          00002 29096+CINITSVC EQU   X'02' .            RETURN TO GATED SV RTN             EM 59370030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00004 29097+CMOVECCB EQU   X'04' .          MOVE CCB AT DISPATCHING TIME       EM 59400030
                          00008 29098+CDELEX   EQU   X'08' .          SERVICE DELAYED EXTERNAL INT.      EM 59430030
                          00010 29099+CDEACT   EQU   X'10' .          TASK IS TEMP. DEACT.          @DS28005 59460030
                          00020 29100+OCPEND   EQU   X'20' .          OC INT. TO BE SERVICED        @DM10713 59490031
                          00040 29101+SEIZE    EQU   X'40' .          TASK HAS SEIZED THE SYSTEM    @DS28005 59520030
                          00080 29102+TRAM     EQU   X'80' .          PROGRAM RUNNING IN VIRTUAL MODE    EM 59550030
                          0007F 29103+PSERTN   EQU   X'FF'-TRAM .     ANY DELAYED SERVICE           @DS28005 59580030

                                29105+*****    LENGTH INDICATORS      *****                                 59640030

                          00000 29107+L0       EQU   0 .              LENGTH 0                         435 59700030
                          00001 29108+L1       EQU   1 .              LENGTH 1                             59730030
                          00002 29109+L2       EQU   2 .              LENGTH 2                             59760030
                          00003 29110+L3       EQU   3 .              LENGTH 3                             59790030
                          00004 29111+L4       EQU   4 .              LENGTH 4                             59820030
                          00005 29112+L5       EQU   5 .              LENGTH 5                             59850030
                          00006 29113+L6       EQU   6 .              LENGTH 6                             59880030
                          00007 29114+L7       EQU   7 .              LENGTH 7                             59910030
                          00008 29115+L8       EQU   8 .              LENGTH 8                             59940030
                          00009 29116+L9       EQU   9 .              LENGTH 9                          EM 59970030
                          0000A 29117+L10      EQU   10 .             LENGTH 10                         EM 60000030
                          0000B 29118+L11      EQU   11 .             LENGTH 11                        RJI 60030030
                          0000C 29119+L12      EQU   12 .             LENGTH 12                            60060030
                          0000E 29120+L14      EQU   14 .             LENGTH 14                         KR 60090030
                          00010 29121+L16      EQU   16 .             LENGTH 16                            60120030
                          00014 29122+L20      EQU   20 .             LENGTH 20                         SD 60150030
                          00018 29123+L24      EQU   24 .             LENGTH 24                         GS 60180030
                          00018 29124+DIBLGT   EQU   24 .             LENGTH OF DIBENTRY                   60210030
                          0001C 29125+L28      EQU   28 .             LENGTH 28                         58 60240030
                          0001D 29126+L29      EQU   29 .             LENGTH 29                         EM 60270030
                          0001E 29127+L30      EQU   30 .             LENGTH 30                   @DL29ZCJ 60300030
                          00020 29128+L32      EQU   32 .             LENGTH 32                        LAV 60330030
                          00024 29129+L36      EQU   36 .             LENGTH 36                         58 60360030
                          0002C 29130+L44      EQU   44 .             LENGTH 44                        ERQ 60390030
                          00040 29131+L64      EQU   64 .             LENGTH 64                         AC 60420030
                          00044 29132+L68      EQU   68 .             LENGTH 68                            60450030
                          00047 29133+L71      EQU   71 .             LENGTH OF SAVE AREA MINUS ONE        60480030
                          00048 29134+L72      EQU   72 .             LENGTH 72                         KR 60510030
                          00050 29135+L80      EQU   80 .             LENGTH 80                         AP 60540030
                          00058 29136+L88      EQU   88 .             LENGTH 88                        LAV 60570030
                          00070 29137+L112     EQU   112 .            LENGTH 112                        AP 60600030
                          000DC 29138+L220     EQU   220 .            LENGTH 220                       ERQ 60630030
                          00100 29139+L256     EQU   256 .            LENGTH 256                        EM 60660030
                          0000F 29140+CCBLNG   EQU   15 .             LENGTH OF CCB MINUS ONE           AC 60690030
                          00007 29141+RCBLNG   EQU   7 .              LENGTH OF RCB MINUS ONE           AP 60720030
                          0002C 29142+ERQLNG   EQU   44 .             LENGTH OF ERROR QUEUE ENTRY      301 60750030

                                29144+*****    DISPLACEMENT FIELDS    *****                                 60810030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00002 29146+NOAL     EQU   2 .              USED TO PREVENT ALIGNM.ERRORS@D34UDFR 60930034
                           00000 29147+D0       EQU   0 .              DISPLACEMENT 0                     AC 60936034
                           00001 29148+D1       EQU   1 .              DISPLACEMENT 1                        60942034
                           00002 29149+D2       EQU   2 .              DISPLACEMENT 2                        60948034
                           00003 29150+D3       EQU   3 .              DISPLACEMENT 3                     AP 60960030
                           00004 29151+D4       EQU   4 .              DISPLACEMENT 4                        60990030
                           00005 29152+D5       EQU   5 .              DISPLACEMENT 5                     AP 61020030
                           00006 29153+D6       EQU   6 .              DISPLACEMENT 6                     AP 61050030
                           00007 29154+D7       EQU   7 .              DISPLACEMENT 7                        61080030
                           00008 29155+D8       EQU   8 .              DISPLACEMENT 8                        61110030
                           00009 29156+D9       EQU   9 .              DISPLACEMENT 9                        61140030
                           0000A 29157+D10      EQU   10 .             DISPLACEMENT 10                       61170030
                           0000B 29158+D11      EQU   11 .             DISPLACEMENT 11 .                     61200030
                           0000C 29159+D12      EQU   12 .             DISPLACEMENT 12                       61230030
                           0000D 29160+D13      EQU   13 .             DISPLACEMENT 13                       61260030
                           0000F 29161+D15      EQU   15 .             DISPLACEMENT 15 .                     61290030
                           00010 29162+D16      EQU   16 .             DISPLACEMENT 16                       61320030
                           00011 29163+D17      EQU   17 .             DISPLACEMENT 17                       61350030
                           00012 29164+D18      EQU   18 .             DISPLACEMENT 18                    KR 61380030
                           00014 29165+D20      EQU   20 .             DISPLACEMENT 20                    EM 61410030
                           00017 29166+D23      EQU   23 .             DISPLACEMENT 23                    EM 61440030
                           00018 29167+D24      EQU   24 .             DISPLACEMENT 24                       61470030
                           0001C 29168+D28      EQU   28 .             DISPLACEMENT 28                    EM 61500030
                           00020 29169+D32      EQU   32 .             DISPLACEMENT 32                    EM 61530030
                           00024 29170+D36      EQU   36 .             DISPLACEMENT 36                    EM 61560030
                           00025 29171+D37      EQU   37 .             DISPLACEMENT 37                       61590030
                           00028 29172+D40      EQU   40 .             DISPLACEMENT 40                    EM 61620030
                           0002C 29173+D44      EQU   44 .             DISPLACEMENT 44                       61650030
                           0002F 29174+D47      EQU   47 .             DISPLACEMENT 47                @DM02507 61680030
                           00030 29175+D48      EQU   48 .             DISPLACEMENT 48                    AP 61710030
                           00038 29176+D56      EQU   56 .             DISPLACEMENT 56                    EM 61740030
                           0003C 29177+D60      EQU   60 .             DISPLACEMENT 60                    EM 61770030
                           00043 29178+D67      EQU   67 .             DISPLACEMENT 67                    EM 61800030
                           00044 29179+D68      EQU   68 .             DISPLACEMENT 68                    AC 61830030
                           00045 29180+D69      EQU   69 .             DISPLACEMENT 69                    EM 61860030
                           00047 29181+D71      EQU   71 .             DISPLACEMENT 71                    AP 61890030
                           00048 29182+D72      EQU   72 .             DISPLACEMENT 72                    EM 61920030
                           00050 29183+D80      EQU   80 .             DISPLACEMENT 80                    EM 61950030
                           00057 29184+D87      EQU   87 .             DISPLACEMENT 87                @D33PAGA 61960033
                           00058 29185+D88      EQU   88 .             DISPLACEMENT 88                    AP 61980030
                           0005D 29186+D93      EQU   93 .             DISPLACEMENT 93                    SD 62010030
                           0005F 29187+D95      EQU   95 .             DISPLACEMENT 95                    AP 62040030
                           00060 29188+D96      EQU   96 .             DISPLACEMENT 96                    AP 62070030
                           00070 29189+D112     EQU   112 .            DISPLACEMENT 112                   EM 62100030
                           00077 29190+D119     EQU   119 .            DISPLACEMENT 119               @D33PAGA 62110033
                           00078 29191+D120     EQU   120 .            DISPLACEMENT 120                   AP 62130030
                           0007F 29192+D127     EQU   127 .            DISPLACEMENT 127                   AP 62160030
                           00080 29193+D128     EQU   128 .            DISPLACEMENT 128                   AP 62190030
                           00002 29194+CARTSIZE EQU   2                DISPL OF CARTRIDGE RECOGN.     @DL2W823 62220030
                           007FF 29195+D2047    EQU   2047 .           DISPLACEMENT 2047                  EM 62250030
                           00800 29196+D2048    EQU   2048 .           DISPLACEMENT 2048                  EM 62280030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                                 29198+*****    VALUES FOR SELECT BYTE   ****                                  EM 62340030

                           00001 29200+SNS      EQU   X'01' .             SENSE TASK IDENTIFIER        @D34SDEM 62377034
                           00002 29201+DSK      EQU   X'02' .             DISK ERP                     @D34SDEM 62387034
                           00003 29202+RAS      EQU   X'03' .             SUPERVISOR RAS PRIORITY MASK @D34SDEM 62397034
                           00004 29203+PMGR     EQU   X'04' .             PAGE MANAGER IDENTIFIER      @D34SDEM 62407034
                                 29204+*        EQU   X'05' .             RESERVED                     @D34SDEM 62417034
                           00006 29205+PGIN     EQU   X'06' .             PRE PAGE IN                  @D34SDEM 62427034
                           00007 29206+SUPVR    EQU   X'07' .             FETCH TASK                   @D34SDEM 62437034
                                 29207+*        EQU   X'08' .             RESERVED                     @D34SDEM 62447034
                           00009 29208+CRT      EQU   X'09' .             CRT IDENTIFIER               @D34SDEM 62457034
                           0000A 29209+ASYID    EQU   X'0A' .             ASYNCHR. OPERATOR COMMUN.    @D34SDEM 62467034
                           0000B 29210+ERP      EQU   X'0B' .             ERROR RECOVERY A(TRANSIENT)  @D34SDEM 62477034
                                 29211+*        EQU   X'0C' .             RESERVED FOR FUTURE EXTENSION@D34SDEM 62487034
                                 29212+*        EQU   X'0D' .             RESERVED FOR FUTURE EXTENSION@D34SDEM 62497034
                                 29213+*        EQU   X'0E' .             RESERVED FOR FUTURE EXTENSION@D34SDEM 62507034
                           0000F 29214+SVT      EQU   X'0F' .             SERVICE TASK                 @D34SDEM 62517034


                                 29216+*****    ATTENTION MASKS          *****                                 62610030

                           00001 29218+EXTRNM1  EQU   X'01' .             MASK FOR EXTRN INTERRUPT TO ATTN RTAC 62670030
                           00002 29219+LTAFCH   EQU   X'02' .             FETCH LOGICAL TRANSIENT          112 62700030
                           00004 29220+REQLTA   EQU   X'04' .             ATTENTION COMMAND AVAILABLE  @DM03444 62730030
                           00010 29221+REQCAN   EQU   X'10' .             REQUEST CANCEL                   112 62760030
                           00020 29222+DELCAN   EQU   X'20' .             DELAY CANCEL OF LTA          @DM03444 62790030
                           00040 29223+REQPTA   EQU   X'40' .             FETCH ABERRZ                 @DM03444 62820030

                                 29225+*****    EXTERNAL INTERRUPT MASKS *****                                 62880030

                           0003F 29227+MICRINT  EQU   X'3F' .             EXTERNAL SIGNAL INTERRUPT MASK     SD 62940030
                           00040 29228+OPCOM    EQU   X'40' .             KEY INTERUPT MASK                  AC 62970030
                           00080 29229+TIMER    EQU   X'80' .             TIMER INTERRUPT MASK               AC 63000030
                           00005 29230+TTIMEB   EQU   X'05'               TASK TIMER INTERRUPT CODE    @D33PADO 63010033

                                 29232+*****    EQUATES FOR TASK TIMER   *****                        @D33PAGA 63018033
                           00080 29233+TTINIT   EQU   X'80'               TASK TIMER INITIALIZED       @D33PAGA 63022033
                           00040 29234+TTWAIT   EQU   X'40'               TASK TIMER DELAY SWITCH      @D33PAGA 63024033
                           00004 29235+TTINTR   EQU   X'04'               CNTL REG 0 MASK FOR INTERRUPT@D33PAGA 63026033

                                 29237+*****    ERROR MESSAGE CODES      *****                                 63060030

                           00020 29239+RCVMSG   EQU   X'20' .             ERROR ON RECOVERY                  AC 63120030


                                 29241+*****    CCW FLAGS                *****                                 63180030

                           00080 29243+E3DCHN   EQU   X'80' .             DATA CHAINING                         63240030
                           00080 29244+DC       EQU   X'80' .             DATA CHAINING                      EM 63270030
                           00040 29245+CC       EQU   X'40' .             COMMAND CHAINING                      63300030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00020 29246+SLI      EQU   X'20' .          SUPPRESS LENGTH INDICATION            63330030
                          00010 29247+SKIP     EQU   X'10' .          SKIP                                  63360030
                          00010 29248+E3SKIP   EQU   X'10' .          SUPPRESS DATA TRANSFER                63390030
                          00004 29249+IDAL     EQU   X'04' .          IDAL BIT                           EM 63420030

                                29251+*****    SYSRES INFORMATION     *****                                 63480030

                          00100 29253+TRACK1   EQU   X'100' .         INCREMENT OF ONE TRACK                63540030
                          00501 29254+TRACK5   EQU   X'501' .         USED TO CALC TRANSIENT DIR            63570030
                          00200 29255+TRACK9   EQU   X'200' .         USED TO CALC PP PHASE DIR             63600030
                          00100 29256+DIRBLOCK EQU   256 .            DIRECTORY BLOCK SIZE         @DL29ZCJ 63630030
                          00400 29257+TXTBLOCK EQU   1024             TEXT BLOCK SIZE              @DL29ZCJ 63660030
                          00012 29258+HEAD18   EQU   18 .             HIGHEST HEAD NUMBER FOR 3330          63690030
                          00009 29259+HEAD09   EQU   9 .              HIGHEST HEAD NUMBER FOR 2311          63720030
                          00013 29260+HEAD19   EQU   19 .             HIGHEST HEAD NUMBER FOR 2314/2319     63750030
                          0000B 29261+HEAD11   EQU   11               HIGHEST HEAD NUMBER OF 3340  @DL2W723 63780030
                          0001E 29262+HEAD30   EQU   30 .             HIGHEST HEAD NUMBER OF 3350  @D34DDAP 63790034
                          00070 29263+NZER3340 EQU   X'70'            ENV. DATA STATUS FLAGS       @DL2W723 63810030
                          000FA 29264+DISREAL  EQU   X'FA'            DISABLE AND REAL MASK        @DL2W723 63840030
                          00005 29265+ENABVIR  EQU   X'05'            ENABLE AND VIRTUAL MASK      @DL2W723 63870030

                                29267+*****    CBYTE DIRECTORY EQUATES *****                        @DL29ZCJ 63930030

                          00080 29269+SELFREL  EQU   X'80'            SELFRELOCATING PHASE         @DL29ZCJ 63990030
                          00040 29270+RELPHASE EQU   X'40'            RELOCATABLE PHASE            @DL29ZCJ 64020030
                          00020 29271+SVAELIG  EQU   X'20'            SVA ELIGIBLE PHASE           @DL29ZCJ 64050030
                          00010 29272+SVAPHASE EQU   X'10'            PHASE IS IN SVA              @DL29ZCJ 64080030
                          00008 29273+PCIL     EQU   X'08'            PHASE FOUND IN PCIL          @DL29ZCJ 64110030
                          00004 29274+NOTFND   EQU   X'04'            PHASE NOT FOUND              @DL29ZCJ 64140030
                          00002 29275+ACTIVE   EQU   X'02'            DIRECTORY ENTRY ACTIVE       @DL29ZCJ 64170030


                                29277+*****    CANCEL CODES           *****                                 64230030

                          00080 29279+LTACNC   EQU   X'80' .          LTA CANCEL CODE                       64290030
                          0001E 29280+X1E      EQU   X'1E' .          USED TO CALCULATE CANCEL CODE         64320030
                          0001F 29281+X1F      EQU   X'1F' .          USED TO CALCULATE CANCEL CODE         64350030
                          00010 29282+NORMEOJ  EQU   X'10' .          CANCEL CODE FOR NORMAL EOJ            64380030
                          00008 29283+FETCHEOJ EQU   X'08' .          EOJ TO BE CALLED                      64410030
                          00015 29284+CANCX15  EQU   X'15' .          PAGE FAULT IN USER APPENDAGE       FR 64440030
                          00017 29285+CANCX17  EQU   X'17' .          SUBS ATTACHED TO MAINTASK             64470030
                          00018 29286+CANCX18  EQU   X'18' .          DUMP MACRO IN MAINTASK                64500030
                          0001A 29287+IOERR    EQU   X'1A' .          I/O ERROR CANCEL CODE                 64530030
                          0001B 29288+FCHAN    EQU   X'1B' .          CHANNEL FAILURE                       64560030
                          0001C 29289+CANCX1C  EQU   X'1C' .          CANCEL ALL MACRO                      64590030
                          0001D 29290+CANCX1D  EQU   X'1D' .          MAINTASKS TERMINATES                  64620030
                          0001E 29291+CANCX1E  EQU   X'1E' .          UNKNOWN ENQ REQUESTOR                 64650030
                          0001F 29292+FCPU     EQU   X'1F' .          CPU CHECK                             64680030
                          00020 29293+PCKCODE  EQU   X'20' .          PROGRAM CHECK CANCEL CODE             64710030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00020 29294+CANCX20  EQU   X'20' .          PROGRAM CHECK CANCEL CODE          FR 64740030
                          00021 29295+CANCX21  EQU   X'21' .          ILLEGAL SVC                        FR 64770030
                          00023 29296+CANCX23  EQU   X'23' .          PROGRAM REQUESTS CANCEL               64800030
                          00024 29297+CANCX24  EQU   X'24' .          OPERATOR REQUESTS CANCEL     @DA08344 64810033

                                29299+*****    PSW ADDRESSES         *****                                64860030

                          00018 29301+EXOLDPSW EQU   X'18' .          EXTERNAL OLD PSW ADDRESS             64920030
                          00020 29302+SVCOPSW  EQU   X'20' .          SVC OLD PSW ADDRESS                  64950030
                          00028 29303+PCOPSW   EQU   X'28' .          ADDRESS OF PROGRAM CHECK OLD PSW     64980030
                          00038 29304+IOOLDPSW EQU   X'38' .          I/O OLD PSW ADDRESS                  65010030

                                29306+*****    OLTEP EQUATES         *****                                65070030

                          00080 29308+OLTAC    EQU   X'80' .          OLTEP ACTIVE INDICATOR               65130030
                          00008 29309+OLTPHIO  EQU   X'08' .          RETAIN HIO INDICATOR                 65160030
                          000FF 29310+OLTPHALT EQU   X'FF' .          NORM OLTEP HIO INDICATOR             65190030
                          00004 29311+CSWSTRD  EQU   X'04' .          CC AFTER HIO                         65220030
                          00003 29312+FGASSGNS EQU   X'03' .          CHECK FOR SHARED DEVICES             65250030

                                29314+*****    SYSTEM BLOCK REFERENCES *****                              65310030

                          00008 29316+SYSDISP  EQU   8 .              LENGTH OF ONE SYSTEM TASK BLOCK      65370030
                          0000F 29317+SYSID    EQU   X'0F' .          TEST FOR REQUESTOR ID. OF SYSTEM TASK 65400030
                                29318+*****    EQUATES USED BY PROGRAM CHECK HANDLER                      65430030

                          00011 29320+PTEXC    EQU   X'11' .          PAGE TRANSLATION EXCEPTION         EM 65490030
                          00012 29321+TRSPEC   EQU   X'12' .          TRANSLATION SPECIFICATION EXCEPT. EM  65520030
                          00010 29322+STEXC    EQU   X'10' .          SEGMENT TRANSLATION EXCEPTION      EM 65550030
                          00004 29323+SMDAT    EQU   X'04' .          MASK TO SET DAT ON                 EM 65580030

                                29325+*****    SVC CODES             *****                                65640030

                          00007 29327+WAIT     EQU   7 .              SVC 7 WAIT                           65700030
                          00019 29328+HIO      EQU   25 .             SVC 25 HALT I/O                      65730030
                          0001C 29329+MICRRET  EQU   28 .             SVC 28 MICR STACKER SELECT RETURN  FR 65760030
                          0001D 29330+N29      EQU   29 .             SVC 29 MULTIPLE WAIT                 65790030
                          0001E 29331+QWAIT    EQU   30 .             SVC 30 QTAM WAIT                     65820030
                          0001F 29332+QPOST    EQU   31 .             SVC 31 QTAM POST                     65850030
                          00022 29333+GETIME   EQU   34 .             SVC 34 GETIME                        65880030
                          00023 29334+TH35     EQU   35 .             SVC 35 CODE                          65910030
                          0002F 29335+MICRWT   EQU   47 .             SVC 47 MICR MULTIPLE WAIT            65940030

                                29337+*****    EMULATOR EQUATES      *****                                66000030

                          00086 29339+DISOPIND EQU   134 .            DISPL.OF OPT. INDICATOR IN COMREG GRD 66060030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00040 29340+EUIND    EQU   X'40' .           TO SET EMULATOR BIT                GRD 66090030
                          00008 29341+EUUNCK   EQU   X'08' .           EU UNIT CHECK PROCESSING IND.      GRD 66120030
                          00010 29342+EUMODSW  EQU   X'10' .           TO SWITCH MODE                     GRD 66150030

                                29344+*****    EQUATES OF ROUTINE IDENTIFIERS FOR PAGE FAULT HANDLER       EM 66210030

                          00000 29346+SYSTEMID EQU   X'00' .           PAGE FAULT IN I/O INTERRUPT HANDL. EM 66270030
                          00004 29347+REENTRID EQU   X'04' .           RE ENTRANT ROUTINE                 EM 66300030
                          00008 29348+USERTID  EQU   X'08' .           DISABLED USERTASK(ALSO B-TRAN.)    EM 66330030
                          0000C 29349+APPENDID EQU   X'0C' .           I/O APPENDAGE                      EM 66360030
                          00010 29350+RESVCID  EQU   X'10' .           RESVC AND HANDLE P.F.              EM 66390030
                          00014 29351+DISPID   EQU   X'14' .           NO RETURN REQU.,E.G.DISPATCHER     EM 66420030
                          00018 29352+PFARID   EQU   BRPFA-BRTAB .     RID FOR PHO APPENDAGE ROUT.        PF 66480030
                          00008 29353+PHOID    EQU   X'08' .           INDICATOR FOR DUMMY PHO-REQUEST IB3.5 66510030

                                29355+*****    FETCH LISTFLAG EQUATES   *****                          @DL29ZCJ 66600030

                          00010 29357+SVALOAD  EQU   X'10'             LOAD TO SVA REQUEST            @DL29ZCJ 66660030
                          00008 29358+FNDENTRY EQU   X'08'             DIRECTORY ENTRY FOUND FLAG     @DL29ZCJ 66690030
                          00004 29359+SYSLIST  EQU   X'04'             SCH SCIL FIRST OPTION          @DL29ZCJ 66720030
                          00002 29360+DENTRY   EQU   X'02'             DIRECTORY ENTRY OPTION         @DL29ZCJ 66750030
                          00001 29361+NTXTNTRY EQU   X'01'             NO TEXT LOAD OPTION            @DL29ZCJ 66780030

                                29363+*****    MORE FETCH EQUATES       *****                          @DL29ZCJ 66840030

                          00022 29365+LISTEL   EQU   34                LENGTH OF DIRECTORY ENTRY      @DL29ZCJ 66900030
                          00002 29366+LISTMSK  EQU   2                 LO ORDER ZEROS MASK            @DL29ZCJ 66930030
                          00040 29367+SDLBUILT EQU   X'40'             SYSTEM DIRECTORY BUILT         @DL29ZCJ 66960030
                          00080 29368+CLOSE    EQU   X'80'             CLOSE FETCH GATE (BNZR TO BR)@DL29ZCJ 66990030

                                29370+*****    LCBYTE EQUATES           *****                          @DL29ZCJ 67050030

                          00002 29372+FCHQ     EQU   X'02'             FETCH REQUESTS ENQ'D           @DL29ZCJ 67110030
                          00001 29373+AUTOCOND EQU   X'01'             AUTOCONDENSE IN PROCESS        @DL29ZCJ 67140030
                          00040 29374+SLD      EQU   X'40'             SECOND LEVEL DIR BEING BUILT   @DL29ZCJ 67170030
                          00020 29375+ALLOWEX  EQU   X'20'             EXEC IS ALLOWED                @DA02796 67180031
                          00008 29376+NEWSUP   EQU   X'08'             NEW SUPV HAS BEEN CATALOGED    @DL29ZCJ 67200030

                                29378+*****    POTPOURRI                *****                                  67260030

                          00001 29380+IPLBIT   EQU   X'01' .           INITIALISATION OF CRT            IB 3.5 67320030
                          00002 29381+TPBIT    EQU   X'02'             TP IN PROGRESS (SYSFLAG1)      @D31AUHL 67325031
                          00002 29382+KLLEDBIT EQU   X'02'             BATCH DEACTIVATED (SYSFLAG4)   @D31AUHL 67330031
                          00004 29383+KLLRSTBT EQU   X'04'             REQUEST KILL RESET (SYSFLAG4)@D31AUHL 67335031
                          00000 29384+PARTSTRT EQU   0 .               DISP. IN CTL BLOCK OF PART. START LAV 67350030
                          00004 29385+NORLDIT  EQU   4 .               DISP. IN CTL BLOCK OF # OF RLD IT.LAV 67380030
                          0005A 29386+ADDINSTR EQU   X'5A' .           OPCODE FOR ADD INSTRUCTION         LAV 67410030
                          0003F 29387+C1BITSOF EQU   X'3F' .           MASK FOR TURNING OF C1 BITS IN H2 LAV 67440030
                          00003 29388+ENABLE   EQU   X'03' .           ENABLE FOR I/O AND EXT INTERRUPTS      67470030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00002 29389+ENABLIO  EQU   X'02' .           ENABLE FOR I/O INTERRUPTS    @DA01099 67500030


                                29391+*****    PSW ORIENTED EQUATES      *****                      @DA10485 67526034

                          000FC 29393+DISABLE  EQU   X'FC' .           DISABLE FOR I/O AND EXT. INT.         67530030
                          0003F 29394+ILCMSK   EQU   X'3F' .           MASK TO ZERO INSTR LENGTH             67560030
                          0003F 29395+ZEROH2   EQU   X'3F' .           TO RESET HIGH ORDER BITS OF H IN CHR  67590030
                          00030 29396+EXTENTRY EQU   X'30' .           TO TEST IF JIB ENTRY CONTAINS EXTENT  67620030
                          000F0 29397+KEY0     EQU   X'F0' .           USED TO TEST KEY                      67650030
                          00001 29398+PPBIT    EQU   X'01' .           PROBLEM PROGRAM BIT                   67680030
                          00030 29399+CCBITS   EQU   X'30' .           BITS FOR CONDITION CODE      @DA10485 67690034
                          0000F 29400+PROGBITS EQU   X'0F' .           BITS FOR PROGRAM MASK        @DA10485 67700034
                          00002 29401+WAITBIT  EQU   X'02' .           WAITBIT IN OLD PSW                    67710030
                          00004 29402+MCBIT    EQU   X'04' .           MACHINE CHECK MASK                    67740030
                          00008 29403+ECBIT    EQU   X'08' .           EXTENDED CONTROL MODE                 67770030
                          00004 29404+PMREQID  EQU   PMGR .            REQID FOR PAGE MANAGER I/O         EM 67800030
                          00007 29405+FETCHID  EQU   SUPVR .           REQID  FOR FETCH                   EM 67830030
                          00003 29406+RASID    EQU   RAS .             REQID FOR RAS I/O                  HL 67860030
                          000F0 29407+REQMASK  EQU   X'F0' .           REQID MASK TO TEST FOR SUPVR REQUEST  67890030
                          00020 29408+RASIPLBT EQU   X'20' .           RAS-IPL IN PROCESS (SYSFLAG3)      HL 67920030
                          00080 29409+ISTRASRT EQU   X'80'             VTAM RAS RETRY IN PROCESS    @DL29H00 67950030
                          00002 29410+CEAPPBIT EQU   X'02'             CE APPENDAGE AUTHORIZATION   @DM12858 67960031
                          00040 29411+JCOPEN   EQU   X'40' .           TO TEST IF JOB CONTROL OPENS (SYSFIL) 67980030
                          00010 29412+IPT81T   EQU   X'10'             81 BYTE SYSIPT               @DM00395 68010030
                          00020 29413+RDR81T   EQU   X'20'             81 BYTE SYSRDR               @DM00395 68040030
                          00001 29414+CATALSA  EQU   X'01'             ALLOW /& FOR MAINT CATALS    @DM02316 68070030
                          000F0 29415+BRUNC    EQU   X'F0' .           MASK FOR UNCONDITIONAL BRANCH         68100030
                          00000 29416+ZERO     EQU   0 .               ZEROBYTE                              68130030
                          00001 29417+ONE      EQU   1 .               VALUE ONE                             68160030
                          00003 29418+THREE    EQU   3 .               VALUE 3                            EM 68190030
                          00006 29419+SIX      EQU   6 .               VALUE 6                            HL 68220030
                          00008 29420+EIGHT    EQU   8 .               VALUE 8                            HL 68250030
                          0000A 29421+TEN      EQU   10 .              VALUE 10                           EM 68280030
                          0000B 29422+ELEVEN   EQU   11 .              VALUE 11                           EM 68310030
                          003E8 29423+THOUSAND EQU   1000 .            VALUE 1000                   @D33PAGA 68320033
                          0005C 29424+ENDSIGN  EQU   C'*' .            DIRECTORY DELIMITER                   68340030
                          0005B 29425+DOLLAR   EQU   C'$' .            DOLLAR SIGN                           68370030
                          00040 29426+BLANK    EQU   X'40' .           BLANK CHARACTER                       68400030
                          00000 29427+LISTEND  EQU   0 .               END OF LIST DELIMITER              AP 68430030
                          00003 29428+LTAWB    EQU   X'03' .           LTA AND WAIT BITS FOR SWITCH       AP 68460030
                          0000F 29429+DUMPSW   EQU   X'0F' .           DUMP SWITCH FOR MAINTASK           AP 68490030
                          00FFF 29430+XFFF     EQU   X'FFF' .          USED FOR MACHINE CHECK MSG            68520030
                          000FF 29431+XFF      EQU   X'FF' .           ALL ONES MASK                      GS 68550030
                          0000F 29432+X0F      EQU   X'0F' .                                             435 68580030
                          00004 29433+PTREX    EQU   4 .               PAGE TRANSLATION EXCEPTION         KR 68610030
                          00007 29434+NOVAL    EQU   7 .               PAGE IS INVALID                    KR 68640030
                          00000 29435+CONS     EQU   X'00'             INDICATE CONSOLE             @DM02327 68670030
                          000B0 29436+LOWDVT   EQU   X'B0'             INDICATE LOWER COMPARE VALUE @DM02327 68700030
                          000E0 29437+HIGHDVT  EQU   X'E0'             INDICATE HIGH COMPARE VALUE  @DM02327 68730030
                          00080 29438+SCVRTPVL EQU   X'80'             VLR INDICATOR                @DL30SSM 68760030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00004 29439+SCV3330  EQU   X'04'            3330 DEV TYPE IN DTF          @DL30SSM 68790030
                          00005 29440+SCV3330B EQU   X'05'            3330-11 DEV.TYPE IN DTF       @D34DDKS 68800034
                          00008 29441+SCV3340  EQU   X'08'            3340 DEV TYPE IN DTF          @DL30SSM 68820030
                          00007 29442+SCV3350  EQU   X'07'            3350 DEV.TYPE IN DTF          @D34DDHH 68830034
                          00004 29443+SCVRPSDV EQU   X'04'            PUB INDICATES RPS DEVICE      @DL30SSM 68850030
                          00080 29444+FECHRPS  EQU   X'80'            INDICATES RPS FOR FETCH       @DL30SSM 68880030
                          00023 29445+SETSECT  EQU   X'23'            SET SECTOR OP CODE            @DL30SSM 68910030
                          00022 29446+RDSECT   EQU   X'22'            READ SECTOR OP CODE           @DL30SSM 68940030
                          000BF 29447+RPSNOCC  EQU   X'BF'            TURN OFF COMMAND CHAINING     @DL30SSM 68970030
                          00011 29448+SRCHRPS  EQU   X'11'            SEARCH ARGUMENT MASK          @DL30SSM 69000030
                          000F9 29449+SCVBR    EQU   X'F9'            BR AROUND RPS CODE IN PG MGR  @DL30SSM 69030030
                          00041 29450+SVC65C   EQU   65 .                                                KR 69090030
                          00000 29451+X00      EQU   X'00' .                                             KR 69150030
                          00004 29452+X04      EQU   X'04' .                                             KR 69180030
                          00008 29453+X08      EQU   X'08' .                                             KR 69210030
                          0000C 29454+X0C      EQU   X'0C' .                                             KR 69240030
                          00010 29455+X10      EQU   X'10' .                                             KR 69270030
                          000F0 29456+USERF    EQU   X'F0' .                                             KR 69300030
                          00001 29457+SYSATTN  EQU   X'01' .                                             KR 69330030
                          0000F 29458+USERMSK  EQU   X'0F' .                                             KR 69360030
                          00002 29459+REALMSK  EQU   X'02' .                                             KR 69390030
                          0000F 29460+VIRTMSK  EQU   USERMSK .                                           KR 69420030
                          00001 29461+X01      EQU   X'01'            FLAG USED IN SVC98 ROUTINE    @D34YDWK 69430034
                          000FE 29462+XFE      EQU   X'FE'            FLAG USED IN SVC98 ROUTINE    @D34YDWK 69440034
                          000C1 29463+CA       EQU   C'A' .           USED TO FETCH $$ABERRA                 69450030
                          000E9 29464+CZ       EQU   C'Z' .           USED TO FETCH $$ABERRZ                 69480030
                          00001 29465+ALTTRK   EQU   X'01' .           ALTERNATE TRACK                        69510030
                          000F0 29466+USERIDS  EQU   X'F0' .           ANY USER ID.                        EM 69540030
                          00010 29467+BGID     EQU   X'10' .           BG IDENTIFIER                          69570030
                          000E2 29468+RMSDERR  EQU   C'S' .            SOFT DISK ERROR CODE                HL 69600030
                          000E3 29469+RMSDERR2 EQU   C'T'              SOFT DISK ERROR CODE          @DY15773 69610034
                                29470+*                                NO RESET OF PUBCSFLG          @DY15773 69616034
                          000AE 29471+RMSAE    EQU   X'AE' .           ALTERNATE ENTRY CODE                HL 69630030
                          000AF 29472+RMSTF    EQU   X'AF' .           ALTERNATE ENTRY TFIXED RECORD       EM 69660030
                          00002 29473+ILC2     EQU   X'02' .           NO EXECUTE INSTRUCTION             367 69690030
                          00003 29474+NVBLK    EQU   3 .                                             @DM03682 69720030
                          00020 29475+VCCWBUFE EQU   NVBLK*8+8 .                                         EM 69750030
                          00008 29476+LSAVE    EQU   8 .              SIZE OF TEMP SAVE AREA FETCH           69780030
                          00008 29477+DSAVE    EQU   8 .              DISP TO TEMP. SAVE AREA FETCH          69810030
                          00030 29478+DIDAL    EQU   VCCWBUFE+DSAVE+LSAVE  DISPLACEMENT TO FETCH-IDAL        69840030
                          000FF 29479+ENDIDAL  EQU   X'FF' .           END OF IDAL INDICATOR               EM 69870030
                          00004 29480+JC59ON   EQU   X'04' .           MASK TO MODIFY JCSW6                GS 69900030
                          000FB 29481+JC59OFF  EQU   XFF-JC59ON .      MASK TO MODIFY JCSW6                GS 69930030
                          0000E 29482+LUBNO    EQU   14 .              NUMBER OF SYSTEM LUBS              473 69960030
                          00040 29483+APPALL   EQU   X'40' .           CHANNEL APPENDAGE ALLOWED              69990030
                          000FF 29484+NULL     EQU   X'FF' .           ALL BITS ON, NO BITS OFF            HL 70020030
                          00080 29485+WANTBIT  EQU   X'80' .           RESOURCE WANTED                     AP 70080030
                          00080 29486+SYSRESW  EQU   X'80' .           WRITE ON SYSRES ALLOWED (PIBASS)       70110030
                          00001 29487+ABINPR   EQU   X'01' .           AB IN PROGRESS BIT(PIBFLG2)         AP 70140030
                          00002 29488+SUBSAT   EQU   X'02' .           SUB(S) ATTACHED (PIBFLG2)           AP 70170030
                          000FD 29489+NOSUBAT  EQU   X'FD' .           NO SUBS ATTACHED(PIBFLG2)           AP 70200030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00004 29490+CNCLD    EQU   X'04' .            CANCEL IN PROGRESS (PIBFLG2)       AP 70230030
                           00010 29491+STOP     EQU   X'10' .            PARTITION STOPPED (PIBFLG2)  @DM03306 70260030
                           0007F 29492+MAKEPOS  EQU   X'7F' .            MAKE POSITIVE                      AP 70290030
                           00080 29493+MAKENEG  EQU   X'80' .            MAKE NEGATIVE                      AP 70320030
                           00040 29494+ABNECB   EQU   X'40' .            ABNORMAL TERMINATION BIT IN ECB    AP 70350030
                           0007F 29495+UNPOST1  EQU   X'7F' .            UNPOST AN ECB                      AP 70380030
                           0003F 29496+UNPOST2  EQU   X'3F' .            UNPOST A TERMINATION ECB           AP 70410030
                           00040 29497+DELTINT  EQU   X'40' .            DELAY TIMER INT. WHILE ABINPR@D33DDJO 70420033
                           000BF 29498+CHAPOFF  EQU   X'BF' .            CHANNEL APPENDAGE OFF              AP 70440030
                           00007 29499+ONDWB    EQU   X'07' .            ON DOUBLE WORD BOUNDARY            AP 70470030
                           00050 29500+HPIKMT   EQU   X'50'       .      HIGHEST PARTITION PIK              JS 70500030
                           0000F 29501+TIKMASK  EQU   X'0F' .            MASK FOR VALIDATION OF TIK         JS 70530030
                           0000F 29502+THMAX    EQU   X'0F' .            MAX VALUE OF TRACK HOLD COUNTER    TH 70560030
                           000F0 29503+THNUL    EQU   X'F0' .            TO RESET TRACK HOLD COUNTER        TH 70590030
                           00080 29504+THWANT   EQU   X'80' .            TRACK WANTED                       TH 70620030
                           00020 29505+THDTCH   EQU   X'20' .            REQUEST FROM DETACH                TH 70650030
                           00010 29506+THFRST   EQU   X'10' .            FIRST TIME THRU                    TH 70680030
                           00080 29507+THSCAN   EQU   X'80'              REQUEST TO SCAN TH TABLE     @DM00577 70710030
                           000FF 29508+UNASSGN  EQU   X'FF'              MASK TO UNASSIGN A LUB             JS 70770030
                           00004 29509+NORESOR  EQU   X'04'              MASK FOR NOT RESOURCE BOUND        JS 70800030
                           000FF 29510+RASMAXCT EQU   255 .              MAXIMUM RETRY COUNT                   70830030
                           00006 29511+RASIOBCB EQU   6                  CCB POINTER IN RAS IOB       @DM11426 70840031
                           00100 29512+NXTCHAN  EQU   X'100' .           SECONDARY CHANNEL WHEN CHANSW     435 70860030
                           00001 29513+BGIND    EQU   1                  BG INDICATOR IN PUBOWNER ENTRY     JS 70890030
                           000F0 29514+UNCND    EQU   X'F0' .            OR TO UNCONDITIONAL AND TO NOP    435 70920030
                           000FF 29515+RETRY256 EQU   255 .              RETRY 256 TIMES                   435 70950030
                           00040 29516+CHAIN    EQU   X'40' .            CHAIN CCW'S                       435 70980030
                           00020 29517+UNCHAIN  EQU   X'20' .            UNCHAIN CCW'S                     435 71010030
                           00030 29518+MCOLDPSW EQU   X'30' .            ADDRESS OF MC OLD PSW             435 71040030
                           000E2 29519+SEREPCDE EQU   C'S' .             SEREP CODE IN LOW CORE            435 71070030
                           000E9 29520+RAST00   EQU   C'Z' .             $$RAST00 IN THE RTA               435 71100030
                           00001 29521+LOW      EQU   1 DISPLACEMENT FOR LOW ORDER BYTE IN PUBOWNER ENTRY   JS 71130030
                           00008 29522+DUMDVC   EQU   X'08'              DUMMY DEVICE SEARCH          @DL29ZCB 71160030
                           00020 29523+POWPART  EQU   X'20'              POWER PART. INDICATOR        @D30EULR 71210031
                           00031 29524+TERMBYTE EQU   X'31'              TCTT DISP IN TCB             @D30EULR 71220031
                                 29525+* RMSR - MAPLOWC - 5745-SC-RMS - REL. 28.0                            03200028
                                 29526+*-------------------------------------------------------------------* 04000025
                                 29527+*        EQUATES TO ADDRESS LOW CORE INFORMATION                      04800025
                                 29528+*-------------------------------------------------------------------* 05600025
                           000A8 29529+CHID     EQU   168                CHANNEL ID                           06400025
                           000AC 29530+IOELP    EQU   172                I/O EXTENDED LOG POINTER             07200025

                           000B0 29532+EXCSW    EQU   176                EXTENDED CHANNEL STATUS WORD         08800025

                           00080 29534+ECSWSTB   EQU   X'80'                 ECSW HAS BEEN STORED IF BIT=0      09650026
                           000B0 29535+SCU      EQU   176           STORAGE CONTROL UNIT                       10400025
                           00010 29536+SCUST    EQU   X'10'          STORAGE CONTROL UNIT STORED              11200025

                           000B0 29538+DETECT   EQU   176           DETECT FIELD                               12800025
                           00008 29539+DCPU     EQU   X'08'          CPU DETECTED                             13600025
                           00004 29540+DCHAN    EQU   X'04'          CHANNEL DETECTED                         14400025
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00002 29541+DSCU     EQU   X'02'          STORAGE CONTROL UNIT DETECTED              15200025
                          00001 29542+DSTU     EQU   X'01'          STORAGE UNIT DETECTED                      16000025

                          000B1 29544+ESOURCE  EQU   177           SOURCE OF ERROR                            17600025
                          00080 29545+ESCPU    EQU   X'80'          SOURCE WAS CPU                             18400025
                          00040 29546+ESCHAN   EQU   X'40'          SOURCE WAS CHANNEL                         19200025
                          00020 29547+ESSCU    EQU   X'20'          SOURCE WAS STORAGE CONTROL UNIT            20000025
                          00010 29548+ESSTU    EQU   X'10'          SOURCE WAS STORAGE UNIT                    20800025
                          00008 29549+ESCU     EQU   X'08'          SOURCE WAS CONTROL UNIT                    21600025

                          00004 29551+MRETRY   EQU   X'04'          MULTIPLE RETRY WAS SUCESSFUL               23200025
                          00002 29552+CRETRY   EQU   X'02'          SUCCESFUL CHANNEL RETRY (HISTORY)          24000025
                          00001 29553+BIT15    EQU   X'01'          RESERVED MUST BE ZERO                      24800025

                          000B2 29555+ECSWVAL  EQU   178           ECSW VALIDITY BITS                         26400025
                          00080 29556+VALIA    EQU   X'80'          INTERFACE ADDRESS IS VALID                 27200025
                          00040 29557+BIT17    EQU   X'40'          RESERVED MUST BE ZERO                      28000025
                          00020 29558+VALCHLG  EQU   X'20'          VALID CHANNEL LOG OUT EXISTS               28800025
                          00010 29559+VALRTRY  EQU   X'10'          VALID RETRY CODE                           29600025
                          00008 29560+VALUNST  EQU   X'08'          VALID UNIT STATUS                          30400025
                          00004 29561+VALCPAK  EQU   X'04'          VALID CHANNEL PROGRAM ADDRESS AND KEY      31200025
                          00002 29562+VALCHA   EQU   X'02'          VALID CHANNEL ADDRESS                      32000025
                          00001 29563+VALUNA   EQU   X'01'          VALID UNIT ADDRESS                         32800025

                          000B3 29565+RESET    EQU   179           RESET CODES                                34400025
                                29566+*        0000                INTERFACE DISCONECT                        35200025
                                29567+*        0100                STOP                                       36000025
                                29568+*        1000                SELECTIVE RESET                            36800025
                                29569+*        1100                SYSTEM RESET CODE                          37600025

                          00008 29571+DISCIN   EQU   X'08'          DISCONECT IN                               39200025

                          000B3 29573+RETRYCD  EQU   179           RETRY CODES                                40800025
                                29574+*        XXXXX000            ERROR ON TEST I/O                          41600025
                                29575+*        XXXXX001            ERROR BETWEEN COMMAND OUT AND STATUS IN    42400025
                                29576+*        XXXXX010            ERROR BETWEEN COMMAND OUT AND DATA TRAN    43200025
                                29577+*        XXXXX011            ERROR AFTER 1 OR MORE BYTES OF DATA        44000025
                                29578+*        XXXXX100            COMMAND OUT NOT ACCEPTED                   44800025
                                29579+*        XXXXX101            DATA TRANSFER UNPREDICTABLE                45600025
                                29580+*        XXXXX110            UNUSED                                     46400025
                                29581+*        XXXXX111            NO OTHER CODES APPLY                       47200025

                          000B4 29583+CIDR     EQU   180                 RESERVED AREA                        48800025

                          000E8 29585+MCIC     EQU   232                 MACHINE CHECK INTERRUPT CODE         50400025

                          000E8 29587+SUBCLASS EQU   232                 SUB CLASS CODES                      52000025
                          00080 29588+SDBIT    EQU   X'80'                SYSTEM DAMAGE BIT                    52800025
                          00040 29589+PDBIT    EQU   X'40'                PROCESSING DAMAGE BIT                53600025
                          00020 29590+SRBIT    EQU   X'20'                SYSTEM RECOVERY BIT                  54400025
                          00010 29591+TDBIT    EQU   X'10'                TIMER DAMAGE                         55200025
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00008 29592+CDBIT    EQU   X'08'          CLOCK DAMAGE                          56000025
                          00004 29593+EDBIT    EQU   X'04'          EXTERNAL DAMAGE                       56800025
                          00002 29594+ERBIT    EQU   X'02'          EXTERNAL RECOVERY (NOT USED)          57600025
                          00001 29595+ACBIT    EQU   X'01'          AUTO-CONFIGURATION                    58400025

                          000E9 29597+TENSE    EQU   233            TENSE CODES                           60000025
                          00002 29598+BVBIT    EQU   X'02'          SOFT ERROR DATA IS VALID              60800025
                          00001 29599+DLBIT    EQU   X'01'          MACHINE CHECK CODE=OR'ED VALUE        61600025

                          000EA 29601+STORERR  EQU   234            STORAGE ERROR CODES BITS 0-3          63200025
                          00080 29602+SEBIT    EQU   X'80'          UNCORRECTED STORAGE ERROR             64000025
                          00040 29603+SCBIT    EQU   X'40'          CORRECTED STORAGE ERROR               64800025
                          00020 29604+PEBIT    EQU   X'20'          UNCORRECTED PROTECTION ERROR          65600025

                          000EA 29606+VALID1   EQU   234            PSW VALIDITY CODES  BITS 4-7          67200025
                          00008 29607+WPBIT    EQU   X'08'          BITS 12-15 OF M.C. OLD ARE VALID      68000025
                          00004 29608+MSBIT    EQU   X'04'          SYSTEM MASK OF M.C. OLD IS VALID      68800025
                          00002 29609+PMBIT    EQU   X'02'          PROGRAM MASK OF M.C. OLD VALID        69600025
                          00001 29610+IABIT    EQU   X'01'          IAR OF M.C. OLD IS VALID              70400025

                          000EB 29612+VALID2   EQU   235            MISC VALIDITY CODES BITS 0-7          72000025
                          00080 29613+FABIT    EQU   X'80'          FAILING STORAGE ADDRESS IS VALID      72800025
                          00040 29614+RCBIT    EQU   X'40'          REGION CODE VALID(ECC OR CWA)         73600025
                          00010 29615+FPBIT    EQU   X'10'          FP REGISTERS STORED ARE VALID         74400025
                          00008 29616+GRBIT    EQU   X'08'          GP REGISTERS STORED ARE VALID         75200025
                          00004 29617+CRBIT    EQU   X'04'          CONTROL REGS STORED ARE VALID         76000025
                          00002 29618+LGBIT    EQU   X'02'          EXTENDED LOG OUT AREA IS VALID        76800025
                          00001 29619+STBIT    EQU   X'01'          INSTR. MODIFIED STORAGE IS VALID      77600025

                          000EC 29621+VALID3   EQU   236             RESERVED                             79200025

                          000EE 29623+MCELL    EQU   238             EXTENDED LOG OUT LENGTH              80800025

                          000F0 29625+RES2     EQU   240            RESERVED AREA 2                       82400025
                          000F8 29626+FSA      EQU   248            FAILING STORAGE ADDRESS               83200025
                          000FC 29627+CWA      EQU   252       CONTROL WORD ADDRESS                       84000026
                          000FE 29628+ECCBITS  EQU   254       ERROR CORRECTION CODE BITS                 84050026
                          00100 29629+FLA      EQU   256            FIXED LOG OUT AREA                    85600025
                          00160 29630+FPRSAVE  EQU   352            FLOATING POINT REG SAVE AREA          86400025
                          00180 29631+GRSAVE   EQU   384            GENERAL REG SAVE AREA                 87200025
                          001C0 29632+CRSAVE   EQU   448            CONTROL REG SAVE AREA                 88000025


                                29634+*     EQUATES FOR CATALOGUED PROCEDURE'S INTERFACE FLAGS          VB 71370030

                          00080 29636+PCALL    EQU   X'80' .             PROCEDURE BEING EXECUTED       VB 71430030
                          00040 29637+POVMOD   EQU   X'40' .             OVERWRITE PROCESSING           VB 71460030
                          00020 29638+PDATA    EQU   X'20' .             PROCEDURE WITH SYSIPT DATA     VB 71490030
                          00010 29639+POVREQ   EQU   X'10' .             OVERWRITE REQUEST FOR JC       VB 71520030
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 LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                           00008 29640+PINSERT  EQU   X'08' .               INSERT REQUEST FOR JC          VB 71550030
                           00004 29641+PEND     EQU   X'04' .               PROCEDURE END                  VB 71580030
                           00002 29642+PSSLOG   EQU   X'02' .               SYSLOG (OPERATOR) PROCEDURE    VB 71610030
                           00001 29643+POVBIT   EQU   X'01' .               OVERWRITE REQUEST FOR SV       VB 71640030



                           00080 29645+EOCL     EQU   X'80' .           END OF COPY LOCATION               EM 71700030
                           000FF 29646+EOB      EQU   X'FF' .           END OF BLOCK                       EM 71730030
                           000FE 29647+NORMDEV  EQU   X'FE' .           NORMAL DEVICE                      EM 71760030
                           00048 29648+MAXBL    EQU   72 .              MAXIMUM BLOCK LENGTH               EM 71790030
                           00080 29649+MSKBIT   EQU   X'80' .           MASK BIT IN CCW-T                  EM 71820030
                                 29650+*                EQUATES FOR PAGE FRAME TABLE ENTRIES             EM 71850030
                           00001 29651+NF       EQU   X'01' .           PAGE FROM NOT TEMP.FIXABLE         EM 71880030
                           00002 29652+SP       EQU   X'02' .           ON-PAGE BELONGS NOT TO SELECT.POOL EM 71910030
                           00004 29653+DRAPBIT  EQU   X'04' .           INDICATES PAGE FRAME IS FAILING    LA 71940030
                           00008 29654+NFF      EQU   X'08' .           PAGE NOT TEMP.FIXABLE              EM 71970030
                                 29655+*                EQUATES         FOE PAGE REQUEST QUEUE ENTRIES     EM 72000030
                           00001 29656+GREALID  EQU   X'01' .           IND.FOR GETREAL -REQUEST           EM 72030030
                           00002 29657+TFIXID   EQU   X'02' .           IND.FOR TFIX-REQUEST               EM 72060030
                           00004 29658+PFIXID   EQU   X'04' .           IND.FOR PFIX REQUEST               EM 72090030
                           00001 29659+EXCHIND  EQU   X'01' .           IND.FOR DELAYED EXCHANGE           EM 72120030
                                 29660+*                EQUATES FOR PAGE MANAGER ROUTINE                 EM 72150030
                           0000A 29661+R10      EQU   10 .                                                 EM 72180030
                           0000B 29662+R11      EQU   11 .                                                 EM 72210030
                           0000C 29663+R12      EQU   12 .                                                 EM 72240030
                           0000D 29664+R13      EQU   13 .                                                 EM 72270030
                           0000E 29665+R14      EQU   14 .                                                 EM 72300030
                           0000F 29666+R15      EQU   15 .                                                 EM 72330030
                           00002 29667+WKREG    EQU   2 .                WORKREG.IN SVC 58/59 RTN          EM 72360030
                           00002 29668+WKREG2   EQU   2 .                                                  EM 72390030
                           00003 29669+WKREG3   EQU   3 .                                                  EM 72420030
                           016E4 29670+REQIDI   EQU   TEMP2CHN .        REQID FIELD IN TEMP.SAVEAREA       EM 72450030
                           016E5 29671+TIRSPT   EQU   REQIDI+1          IRS POINTERIN TEMP.SAVE AREA @DY15773 72480034
                           016E6 29672+LUBDSPI  EQU   TIRSPT+1          REL.IDENT. FOR SYSTEM LUBS   @DY15773 72490034
                           00002 29673+CBIT     EQU   X'02' .           MASK FOR CHANGE BIT          @DL2982P 72540030
                           00004 29674+RBIT     EQU   X'04' .           MASK FOR REFERENCE BIT       @DL2982P 72570030
                           000D9 29675+REL      EQU   C'R' .            SVC ID FOR RELPAG            @DL2982P 72600030


                                 29677+*****    EQUATES FOR I/O INTER RUPT PROCESSING                    EM 72660030
                           00061 29678+SLASH    EQU   C'/' .                                             EM 72690030
                           0005C 29679+ASTR     EQU   C'*' .            FOR TEST END OF FILE             EM 72720030
                           00050 29680+AMPERS   EQU   C'&&' .           FOR TEST END OF JOB              EM 72750030
                           0004E 29681+PLUS     EQU   C'+' .            END OF CAT.PROCEDURE             EM 72780030

                                 29683+*****    EQUATES FOR PAGE TABLE ENTRY                             EM 72840030
                           00080 29684+HIGHAD   EQU   X'80' .           HIGH ADDR.BIT IN PAGE TABLE ENTRY EM 72870030
                           00004 29685+INVP     EQU   X'04' .           INVALID PAGE IN PT-ENTRY         EM 72900030
                           00001 29686+UNUSE    EQU   X'01' .           UNUSED INDICATOR IN PT-ENTRY     EM 72930030
                           00004 29687+PN       EQU   4 .               PAGE NUMBER                      EM 72960030
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LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                    DOS/VS ASSEMBLER REL 34.0 16.39 10-02-19

                          00020 29689+PFIX     EQU   X'20' .          PFIX SPEC. IN SYSTEM CONFIG.BYTE 2 EM 73020030
                          00080 29690+REAL     EQU   X'80' .          GETREAL REQUESTED                  EM 73050030
                                29691          END                                                         00264**5
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ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS	ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS
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001	+001	A	4	00005C	001	+001	A	4	000788
001	+001	A	4	000064	001	+001	A	4	00078C
001	+001	A	4	00006C	001	+001	A	4	000790
001	+001	A	4	000074	001	+001	A	4	0007A8
001	+001	A	4	00007C	001	+001	A	4	0007AC
001	+001	A	4	000080	001	+001	A	4	0007B0
001	+001	A	4	0005E0	001	+001	A	4	0007C8
001	+001	Y	2	00068E	001	+001	A	4	0007CC
001	+001	Y	2	000690	001	+001	A	4	0007D0
001	+001	Y	2	000692	001	+001	A	4	0007D4
001	+001	Y	2	000694	001	+001	A	4	0007D8
001	+001	Y	2	000698	001	+001	A	4	0007E0
001	+001	Y	2	00069A	001	+001	A	4	0007E8
001	+001	Y	2	00069C	001	+001	A	4	0007F4
001	+001	Y	2	0006AA	001	+001	A	4	0007F8
001	+001	Y	2	0006B0	001	+001	A	4	0007FC
001	+001	Y	2	0006B4	001	+001	A	3	000805
001	+001	Y	2	0006B6	001	+001	A	4	000808
001	+001	Y	2	0006B8	001	+001	A	4	00081C
001	+001	A	4	0006C0	001	+001	A	4	000820
001	+001	A	4	0006C4	001	+001	A	4	000824
001	+001	A	4	0006C8	001	+001	A	4	000828
001	+001	Y	2	0006CC	001	+001	A	4	00082C
001	+001	Y	2	0006D4	001	+001	A	4	000834
001	+001	A	4	0006D8	001	+001	A	4	00086C
001	+001	A	4	0006F8	001	+001	A	4	000870
001	+001	A	4	0006FC	001	+001	A	4	000878
001	+001	Y	2	000700	001	+001	A	4	000880
001	+001	Y	2	000702	001	+001	A	4	000884
001	+001	A	4	000708	001	+001	A	4	000888
001	+001	A	4	00070C	001	+001	A	4	00088C
001	+001	A	4	000710	001	+001	A	4	000890
001	+001	A	4	000714	001	+001	A	4	000894
001	+001	A	4	00071C	001	+001	A	4	000898
001	+001	A	4	000728	001	+001	A	4	00089C
001	+001	A	3	00072D	001	+001	A	4	0008A0
001	+001	A	4	000734	001	+001	A	4	0008A4
001	+001	Y	2	00073E	001	+001	A	4	0008A8
001	+001	A	4	000740	001	+001	A	4	0008AC
001	+001	A	4	000748	001	+001	A	4	0008B0
001	+001	A	4	00074C	001	+001	A	4	0008B4
001	+001	A	4	00075C	001	+001	A	4	0008B8
001	+001	A	4	000764	001	+001	A	4	0008BC
001	+001	A	4	000768	001	+001	A	4	0008C0
001	+001	A	4	00076C	001	+001	A	4	0008C8
001	+001	A	4	000770	001	+001	A	4	0008E8
001	+001	A	4	000774	001	+001	A	4	0008EC
001	+001	A	4	000778	001	+001	A	4	000980
001	+001	A	4	00077C	001	+001	A	4	000988

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ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS	ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS
001	+001	Y	2	0009B2	001	+001	CCW	3	0017D1
001	+001	A	4	0009B8	001	+001	CCW	3	0017D9
001	+001	A	4	0009BC	001	+001	CCW	3	0017E1
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001	+001	A	4	0009C4	001	+001	CCW	3	0017F1
001	+001	A	4	0009C8	001	+001	CCW	3	0017F9
001	+001	A	4	00150C	001	+001	A	3	001801
001	+001	A	4	001510	001	+001	A	3	001805
001	+001	A	4	00158C	001	+001	A	3	001809
001	+001	A	4	0015B8	001	+001	CCW	3	001811
001	+001	A	4	0015BC	001	+001	CCW	3	001819
001	+001	A	4	001610	001	+001	CCW	3	001821
001	+001	A	4	001614	001	+001	CCW	3	001831
001	+001	A	4	001618	001	+001	CCW	3	001839
001	+001	A	4	00161C	001	+001	CCW	3	001841
001	+001	A	4	001634	001	+001	CCW	3	001849
001	+001	A	3	001644	001	+001	CCW	3	001851
001	+001	A	4	0016BC	001	+001	CCW	3	001859
001	+001	Y	2	001718	001	+001	A	4	00188C
001	+001	A	4	00171C	001	+001	A	4	001890
001	+001	Y	2	001720	001	+001	A	4	001894
001	+001	A	4	001724	001	+001	A	4	0018A0
001	+001	Y	2	001728	001	+001	A	4	0018A4
001	+001	A	4	00172C	001	+001	A	4	0018A8
001	+001	Y	2	001730	001	+001	A	4	0019BC
001	+001	A	4	001734	001	+001	A	3	0019CD
001	+001	Y	2	001738	001	+001	A	3	0019DD
001	+001	A	4	00173C	001	+001	A	3	0019ED
001	+001	Y	2	001740	001	+001	A	3	0019FD
001	+001	A	4	001744	001	+001	A	3	001A0D
001	+001	Y	2	001748	001	+001	A	3	001A1D
001	+001	A	4	00174C	001	+001	A	3	001A2D
001	+001	Y	2	001750	001	+001	A	3	001A3D
001	+001	A	4	001754	001	+001	A	3	001A4D
001	+001	Y	2	001758	001	+001	A	3	001A5D
001	+001	A	4	00175C	001	+001	A	3	001A6D
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001	+001	CCW	3	001769	001	+001	A	3	001A8D
001	+001	CCW	3	001771	001	+001	A	3	001A9D
001	+001	CCW	3	001779	001	+001	A	3	001AAD
001	+001	CCW	3	001781	001	+001	Y	2	0028AE
001	+001	CCW	3	001789	001	+001	Y	2	0028B0
001	+001	CCW	3	001791	001	+001	Y	2	0028B2
001	+001	CCW	3	001799	001	+001	Y	2	0028B4
001	+001	CCW	3	0017A1	001	+001	Y	2	0028B8
001	+001	CCW	3	0017A9	001	+001	Y	2	0028BA
001	+001	CCW	3	0017B1	001	+001	Y	2	0028BC
001	+001	CCW	3	0017B9	001	+001	Y	2	0028CA
001	+001	CCW	3	0017C1	001	+001	Y	2	0028D0
001	+001	CCW	3	0017C9	001	+001	Y	2	0028D4

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ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS	ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS
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001	+001	A	4	0028E4	001	+001	Y	2	002ACC
001	+001	A	4	0028E8	001	+001	Y	2	002ACE
001	+001	Y	2	0028EC	001	+001	Y	2	002AD0
001	+001	Y	2	0028F4	001	+001	A	4	002AD8
001	+001	A	4	0028F8	001	+001	A	4	002ADC
001	+001	Y	2	002956	001	+001	A	4	002AE0
001	+001	Y	2	002958	001	+001	Y	2	002AE4
001	+001	Y	2	00295A	001	+001	Y	2	002AEC
001	+001	Y	2	00295C	001	+001	A	4	002AF0
001	+001	Y	2	002960	001	+001	A	4	003928
001	+001	Y	2	002962	001	+001	A	3	003FBB
001	+001	Y	2	002964	001	+001	CCW	3	003FC9
001	+001	Y	2	002972	001	+001	Y	2	004028
001	+001	Y	2	002978	001	+001	A	3	004AFF
001	+001	Y	2	00297C	001	+001	CCW	3	004B21
001	+001	Y	2	00297E	001	+001	CCW	3	004B29
001	+001	Y	2	002980	001	+001	CCW	3	004B31
001	+001	A	4	002988	001	+001	CCW	3	004B39
001	+001	A	4	00298C	001	+001	CCW	3	004B41
001	+001	A	4	002990	001	+001	CCW	3	004B51
001	+001	Y	2	002994	001	+001	CCW	3	004BA9
001	+001	Y	2	00299C	001	+001	CCW	3	004BB1
001	+001	A	4	0029A0	001	+001	CCW	3	004BB9
001	+001	Y	2	0029FE	001	+001	CCW	3	004BC1
001	+001	Y	2	002A00	001	+001	CCW	3	004BC9
001	+001	Y	2	002A02	001	+001	CCW	3	004BD1
001	+001	Y	2	002A04	001	+001	CCW	3	004BD9
001	+001	Y	2	002A08	001	+001	CCW	3	004BE1
001	+001	Y	2	002A0A	001	+001	CCW	3	004BE9
001	+001	Y	2	002A0C	001	+001	CCW	3	004BF1
001	+001	Y	2	002A1A	001	+001	CCW	3	005169
001	+001	Y	2	002A20	001	+001	CCW	3	005179
001	+001	Y	2	002A24	001	+001	CCW	3	005189
001	+001	Y	2	002A26	001	+001	A	4	0060D4
001	+001	Y	2	002A28	001	+001	A	4	0060D8
001	+001	A	4	002A30	001	+001	A	4	0060DC
001	+001	A	4	002A34	001	+001	A	4	0060E0
001	+001	A	4	002A38	001	+001	A	4	0060E4
001	+001	Y	2	002A3C	001	+001	A	4	006B6C
001	+001	Y	2	002A44	001	+001	A	4	006B78
001	+001	A	4	002A48	001	+001	A	4	006B7C
001	+001	Y	2	002AA6	001	+001	A	4	0080A0
001	+001	Y	2	002AA8	001	+001	A	4	008190
001	+001	Y	2	002AAA	001	+001	A	4	008194
001	+001	Y	2	002AAC	001	+001	A	4	008198
001	+001	Y	2	002AB0	001	+001	A	4	00819C
001	+001	Y	2	002AB2	001	+001	A	4	0081A4

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ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS	ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS
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001	+001	A	4	0081B8	001	+001	CCW	3	00A311
001	+001	A	4	0081BC	001	+001	CCW	3	00A319
001	+001	A	4	0081C4	001	+001	CCW	3	00A329
001	+001	A	4	0081CC	001	+001	CCW	3	00A331
001	+001	A	4	0081D4	001	+001	CCW	3	00A339
001	+001	A	4	0081D8	001	+001	CCW	3	00A341
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ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS	ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS
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001	+001	A	3	00F9C5	001	+001	A	3	00FA8D
001	+001	A	3	00F9C9	001	+001	A	4	00FA90
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001	+001	A	3	00F9E5	001	+001	A	4	00FAAC
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001	+001	A	4	00F9F0	001	+001	A	3	00FAB9
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001	+001	A	3	00FA11	001	+001	A	4	00FAD8
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001	+001	A	4	00FA34	001	+001	A	3	00FAFD
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ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS	ESDID FOR ADDR CON	ESDID FOR REF SYMBOL	TYPE	LENGTH	ADDRESS
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ACCTBG    00008 001 011768 23513  0343  0647
ACCTBLES  00001 001 0009B8 00646  0917  1028  1075  1086 18813
ACCTBNDT  00004 1E5 000024 27766  1030  1031
ACCTCNCL  00001 1E5 00004A 27771
ACCTCOMN  00008 001 000990 00632  0421
ACCTCPUT  00004 1E5 00001C 27764  0918  0919  1087  1088
ACCTDATE  00008 1E5 00004C 27773
ACCTEXEC  00008 1E5 000060 27777
ACCTFAID  00001 001 0009A9 00638  0909  1064  1065  1081  1089  6726  6825
ACCTF1    00008 001 011E08 23613  0651  3028
ACCTF2    00008 001 011C60 23588  0650  3100
ACCTF3    00008 001 011AB8 23563  0649  3172
ACCTF4    00008 001 011910 23538  0648  3244
ACCTHICR  00004 1E5 000068 27778
ACCTIME   00004 001 0009AC 00641  1055  1060
ACCTIMES  00004 1E5 00006C 27779
ACCTJBNM  00008 1E5 000030 27768
ACCTLADD  00004 1E5 000018 27763
ACCTLEN   00002 1E5 00000E 27760
ACCTLOAD  00002 1E5 000010 27761
ACCTOVHT  00004 1E5 000020 27765  1077  1078
ACCTPART  00001 1E5 00000C 27758
ACCTPCNT  00004 001 0009A4 00636  1024  1071
ACCTPTID  00002 1E5 000048 27770
ACCTRAID  00001 001 0009AA 00639  0876  0909  0910  0915  0922  1034  1065  1068  1081  1084  1089  1296 11024 11035
                                  11645 18028
ACCTRES   00004 1E5 00005C 27776
ACCTRESC  00002 001 0009B0 00642
ACCTRES2  00001 1E5 00000D 27759
ACCTRES3  00002 1E5 000016 27762
ACCTSAID  00001 001 0009A8 00637
ACCTSEAS  00002 001 0009CC 00652
ACCTSIOS  00006 1E5 000078 27780 18815 18827
ACCTSTOP  00004 1E5 000058 27775
ACCTSTRT  00004 1E5 000054 27774
ACCTSVJN  00008 1E5 000028 27767
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
ACCTSVPT 00004 1E5 000008 27757
ACCTSVRE 00002 001 0009A2 00635  1023  1025
ACCTSVRG 00004 001 000990 00633 18795 18830
ACCTSVRX 00002 001 0009A0 00634  1070  1072
ACCTSWCH 00001 001 0009AB 00640
ACCTUSEL 00002 001 0009B4 00644
ACCTUSEP 00002 001 0009B2 00643
ACCTUSER 00001 001 001BD0 02471  0643
ACCTUSRS 00016 1E5 000038 27769
ACCTWK1  00004 1E5 000000 27755
ACCTWK2  00004 1E5 000004 27756
ACCTYPER 00001 1E5 00004B 27772
ACCUNRIO 00001     000010 28867  6241 16655 17296 18239 19947
ACCWGEN  00004 001 0090C8 12034 12021
ACCWNDSP 00004 001 000714 00381  4068  5137
ACCWT    00004 001 00077C 00423  1526  1784  3813  4172  4428  9544  9708 10856 11058 11365 12141 12322 12489 12609
                                12949 12964 13173 13734 14078 14195 18301 21949 22001
ACCWT2   00004 001 0008C8 00546  8181  9105  9371  9497  9532  9555  9565  9582  9646  9703  9749  9769 12142 14079
ACHANQ   00004 001 00071C 00384  0803 18315 18356 19117 19223 20511
ACHNTAB  00004 001 000734 00395  4361  4686  5370 18387 18733 19686
ACLOSE   00001     000010 27677  0714
ACONST   00004 001 00A7B4 13853  1544 12776 13737 23288 27277
ACRTBUAD 00004 001 0124E4 24084
ACRTSAV  00004 001 0018A0 02215  1400  3880  6250 18702
ACRTTRNS 00004 001 0018A4 02217  1391  2218  7221 18706
ACTCCW   00001 001 0123B4 23881 23882
ACTDSKA  00007 001 012334 23808
ACTION   00004 001 00BE3C 15902 15897
ACTIVE   00001     000002 29275  7090  7126  7140  7338  7356
ACTLCCW  00004 001 01231C 23785 23786
ACTLOAD  00001     000080 17467 16465 17126
ACTSYS   00004 001 00335A 04107  4059
ADBTAMCB 00001 1FE 000001 27348  8204  8216  8376  9030  9033
ADDAYHI  00002 001 00B2BA 14563 14561
ADDCLHI  00004 001 00B2E2 14593 14591
ADDINSTR 00001     00005A 29386
ADD1     00004 001 00358C 04279  4255  4259  4276
ADEACT   00004 001 00AC9C 14353 14155
ADIRBUFE 00004 001 001634 02009  7645  7734  7747  7764
ADISKERR 00004 001 00158C 01918  6402
ADPD     00004 001 0007D8 00457 13329 13430
ADRTFIX  00002 001 0008D8 00552
ADRTFREE 00002 001 0008DA 00553
ADTST    00002 001 0048AE 06208  5517  5710  5926  5972  6133  6195
ADTST1   00002 001 0048B4 06210  5520  6002
AEOPGQU  00004 001 008770 11106  9477 11646 11695 11842 11847 11849 11946 12975 12999 14126 15885 16261
AEOPGTAB 00004 001 00C23C 16301 16008 16020 16144 16157 16159 16209 16241
AERBLOC  00004 001 0006F8 00372  1676  4697  4742  4761  5035  5298  5492  6267  6375  6377  7332 18981 19788 19818
                                19889
AEXIT    00004 001 000C08 00899
AEXTER   00004 001 000710 00379
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
AEXTRTN  00004 001 000878 00516  1016  6848 14893 19638
AFCB     00004 001 0008EC 00559  1440  9019  9021  9151  9153  9549
AFETCH   00004 001 000708 00377  1392  1670  6547  6906 14974 15079 19474 19513 19530 19573 19758 19769 19866
AFIXWTAB 00004 001 00876C 11105 11277 11356 11564 11588 12277 12312 12531 12572 12584 14205
AFRAME3  00004 001 012414 24007
AFRSTIRS 00004 001 000804 00472  4065  4077  4142  5936  5943 18155 18680
AFTIOINT 00001     000004 28690  4422 18378 18729 18857 18880
AFTTAB   00004 001 0007E8 00462  6517  6958  7094  7150  7191  7357
AHQTAB   00004 001 0015B8 01931  4192  4434  4548 19025
AINAR    00004 001 012430 24016
AINAR1   00004 001 012434 24017
AINSTL   00004 001 01242C 24015
AINTER   00004 001 00070C 00378  0703  0860  1035  5516  5709  5925  5971  6132  6194  6341  8388  9289  9460 14768
                             16915 16944 17061 17540 18451 18475 18768 18861 18925 19098 19165 19246 19436 19681
                             20003
AIRSBLND 00004 001 000808 00476  4062  5938
AI00     00001     000000 28133 28095
AJACOMMN 00004 001 000774 00421
ALASTIN  00004 001 012408 24004
ALBEXIT  00001 001 000D3C 01019  0856  1010
ALBOUND  00001     000010 28688
ALIGNPTR 00004 001 001648 02013  7516
ALLBND   00004 001 005F24 06723  6661  6669
ALLOWAPP 00001 001 002F94 03793
ALLOWEX  00001     000020 29375  7159
ALLOW20  00001 001 002FB8 03805  3796
ALMSGL   00004 001 012428 24014
ALNE1    00004 001 012420 24012
ALNE2    00004 001 012424 24013
ALTA     00004 001 000714 00380  0381  6962  7603 19170 19518
ALTCHANN 00001     000010 04669
ALTSDAR  00004 1DC 000000 28238 11206 11242 11435 11439 27139
ALTTRK   00001     000001 29465  5700  5727
AMBNDBG  00001     000029 29043  0819 15047
AMBNDF1  00001     000031 29059
AMBNDF2  00001     00002F 29055
AMBNDF3  00001     00002D 29051
AMBNDF4  00001     00002B 29047
AMCOM    00004 001 000788 00426 11664 14977 15082 15119
AMENTRY  00004 001 0008A4 00535 22706
AMPERS   00001     000050 29680  4330
AMSGTEXT 00004 001 01241C 24009
AMSGWAIT 00004 001 012418 24008
AMVCFLD  00004 001 0007AC 00445 13911 14305
ANB      00004 1FD 000044 27385  8340  8364  8381  8609  8615  8673  8694  8695  8826  8829  8900  8902  8903  9021
                             9147  9176  9176  9214  9284  9388  9857  9863
ANCHBAS  00001     00000C 28546 15001 15014 15015 15015 15016 15017 15158 15560 15587 15601 15618 15640 15649 15650
                             15659 15678 15694 15695 15699 15745
ANCHSVA  00001     000080 28573 15602 15604
ANCHTAB  00001 1DA 000000 28323  1134  1136 15158 15587 28325 28568
ANCHTBIT 00001     000001 28321  1126  7615 15012 15611 15613
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
ANCHTBYT 00001 1DB 000086 28320 15012 15611 15613
ANCSAV   00004 1EE 000054 27599 15058 15069 15085
ANRUR    00004 001 001618 01997 21975 21997 22119 22272 22277 22308 22310 22434 22458 22480
ANYTIC   00001     000077 29020  8290
AOLTAB   00004 001 000764 00417
AORGCCW  00004 001 01231C 23786
APAGEOPT 00004 001 0008AC 00537  1232 14073 20526 22708
APBASE   00004 001 000894 00531  0979  1199  1238  1245  3576  3602  3610  3672  6855 10921 14420 14859 14874 19501
                                20528 21768 22703
APFATAB  00004 001 00873C 11089  1521 11159 11655 11824
APFT     00004 001 0007CC 00454  1489  1731 11287 11315 11494 12165 12306 12434 12515 12548 12618 12635 12638 12792
                                12847 12858 12861 12873 12891 13072 13074 13122 13125 13193 13195 13197 13275 13519
                                13589 13625 13766 13802 15833 16066 16070 27165 27247
APFTX    00004 001 0007D0 00455  1473  1499 12177 12309 12436 13129 13536 13577
APFTXP   00004 001 008768 11104 12437 12462
APGQUE   00004 001 00ACA0 14354 14171 14219 14230 14241 14268
APMGR    00004 001 000778 00422  1235  1433  1513  1540  1857  3819  6731  6768  6833  7668  7700  7793  8412  8759
                                8913  8937  9123  9475  9843 10009 10823 10875 11169 11723 11878 14758 14795 14799
                                15116 15827 15997 16227 18003 19899 20534 27176 27274 27295
APNO     00002 001 0007C6 00452  6649  6740 11450 11452 12072 12074 13886 14068 14324 14326
APOWTB   00004 001 000754 00412  1255  1281  1570  3987  4095 18205 19551 19913 21448 21644
APPALL   00001     000040 29483
APPBEG   00004 001 000718 00382  7595  7599 13797 27192 27241
APPEN    00001     000040 28885  3788  3791  3916  4060  4101  4229  6039  9173  9376 14022 17999 18001 18241
APPENDID 00001     00000C 29349  3794 10848 10918 10954 18008
APPPCHK  00004 001 00849E 10931 10919
APT      00004 001 0086B8 11078  7707 11342 11552 12620 12760 12800 12864 13101 13200 13237 13615 13765
APTA     00004 001 00078C 00427 19854 19865
AQ00     00004 001 01DF74 27292 27248
AREGSAV  00004 001 000728 00390  3749  3800  4388  4395 18739 19269
AREXIT   00004 001 00E6D0 19988  0373
ARFLG    00001 1EC 000008 27660  1175  1663  1679  3653  3896  3898  3902 19595 19614 20239
ARLDBUFE 00003 001 001644 02012  7833
ARPSL    00004 001 0007F4 00465
ARPSR    00004 001 0007F8 00468  7444 13423
ARTAB    00004 001 00A714 13826 13646 13660 13679 13722
ARURTAB  00004 001 001610 01995 22125 22268 22319 22383
ASCIITAB 00020 001 014621 24575  0419
ASCIITAD 00004 001 00076C 00419
ASCRIMG  00004 001 012400 24002
ASCRIMG0 00004 001 0124E0 24083
ASCT     00004 001 0123FC 24001
ASEGT    00004 001 0007C8 00453 15835 27146 27189
ASERTASK 00004 001 000874 00514  3961 18412 19280
ASETFCH  00004 001 0090C4 12033 12014
ASNSINIT 00004 001 003928 04562  4629  4632  4635  4638
ASTR     00001     00005C 29679  4318
ASTRING  00004 001 000980 00625  7605  7638  7685  7712  7780  7794 12022
ASUPBLK  00004 001 006B6C 07905  7900
ASUPSAVA 00004 001 012314 23782
ASVA     00004 001 0007EC 00463  1602  1872  7115  7117  7180  7185  8749 11908 16446 27234
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
ASVCTAB  00004 001 0008BC 00542  0991 27131
ASVCX    00004 001 0008B0 00538 22709
ASVCX2   00004 001 0008B4 00539  1834 14508 22710
ASVC33   00004 001 0008C0 00543 27130
ASVC95X  00004 001 0008B8 00540 22711
ASVIS    00004 001 0007F0 00464  1874 15537
ASYFLG   00001 001 0015D8 01959  1960
ASYID    00001     00000A 29209
ASYSBLKX 00004 001 000794 00429  0875  1356  1454  1693  4114  4873  4880  6269  6795  6812  6923  7900 11422 11702
                                14511 16029 16051 16926 19366 19872
ASYSBLK0 00004 001 000790 00428  3643  4108  6794 11700 11829 11970 12011 12985 14015 16027 16249 16478 16499 16935
                                19335 19425 19675 19981
ASYSPIBS 00004 001 0008E8 00558
ASYSTSV  00004 001 0018A8 02229  2230
AS2RUR   00004 001 001614 01996 22127 22269 22271 22314 22316
ATABASE  00004 001 012404 24003
ATL      00001 001 00B6A6 14989 14995
ATNRTN   00004 001 001334 01661  1185  6684
ATRTDV   00004 001 000988 00627  6746
ATTACHSA 00001 001 0085A8 11018 10969
ATTBUFF  00080 001 0121F0 23711
ATTENT   00001     000080 28625  3858  4470
ATTLENG  00001 001 012326 23789
ATTNFCH  00004 001 006128 06918  6913
ATTNNM   00008 001 00159A 01925  1661
ATTTAB   00004 001 0007A8 00444  0903  3681  3683  6713 14881 14883 21054 21057 21089
AUTCB    00004 001 006B74 08115  8972  8973  8988  8997  9088  9584  9773 10452
AUTOCOND 00001     000001 29373
AUXTAB   00001 001 0123FA 23994
AVAIL    00001 001 00D65A 18407 18395 18399 18401 18404 18953 18955
AVAILCHN 00001     000008 28597 18860
AVIRT    00004 001 0007E0 00460
AWAITL   00004 001 00161C 01998  1645 22224
AWRNBUFA 00004 001 01240C 24005
AWRNL    00004 001 012438 24018
BACKOUT1 00001 001 0069A0 07767  7710  7745
BACKOUT2 00006 001 0069B6 07773  7731
BBCCHHR  00002 001 0016CC 02047  2127  2138  6599
BBOX     00004 001 010530 23251  0456
BBOXADR  00001 1DC 000000 28231  7106 11205 11897 12051 12227 15556 15653 15677 16187 20995 27135 27197
BCONST   00004 001 00A7C0 13860  1545 12778 13739 27278
BCTAB    00004 001 00AC7E 14345 14157
BCTABX   00004 001 00AC82 14343 14345
BDUMP    00008 001 001874 02195 19495
BEGAD    00004 001 00BEF0 15954 15861 15863 15865 15889
BEGIN    00004 001 00BD24 15826 15773
BENDPTR  00004 1FE 000010 27353  8306  8309  8338  8339
BEOJ3A   00008 001 00DF0A 19176 19171
BGCOMPT  00002 1DB 000084 28298
BGCOMREG 00008 001 000650 00298  0221  0348  2258  2268  3033  3105  3177  3249
BGID     00001     000010 29467 19083
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
BGIND     00001     000001 29513 19106
BGSLD     00002 001 01498E 24690 24639
BITBYT    00001     000008 28567 15257 15457 15463 15471 15673 15740
BITREG    00001     000020 28566 15257 15370 15392
BITTAB    00008 001 008774 11107 11372 11561 11602 11768 12274 12328 12495 12615 13180
BIT15     00001     000001 29553
BIT17     00001     000040 29557
BLANK     00001     000040 29426
BLCKCHN   00001     000020 28651 18855
BLDREQU   00004 001 008AD4 11508 11490
BLDREQU1  00006 001 008ADC 11510 11500 11502
BLHQ      00004 001 005F92 06753  6750
BLKLNE    00001 001 012D0E 24325 24006 24027
BLOKSIZE  00008 001 0017E6 02155  7442  7517  7520
BLSKIP    00004 001 005FEE 06778  6772  6775
BLTPOFF   00001 001 005F60 06739  6737
BMPXCHN   00001     000001 28654
BMPXPUB   00002 001 00DC3C 18942  4367  4369 18873
BNDBG     00001     00004B 29045 12385
BNDF1     00001     000053 29061
BNDF2     00001     000051 29057
BNDF3     00001     00004F 29053
BNDF4     00001     00004D 29049
BNDRYCHK  00004 001 00689E 07670
BONCE     00004 001 006180 06962  6514  6549
BOUND     00001     000087 29084  5066  5070  5307  6799 11374 12331 12502 12521 14020 14221 16225 19428 20129
BQCL      00004 001 00A106 13275 12767
BQCL1     00004 001 00A16E 13302 13279
BQCL2     00004 001 00A14E 13294 13285
BQCL3     00004 001 00A166 13300 13286
BQCL4     00004 001 00A10E 13277 13292 13299
BQCL5     00004 001 00A172 13303 13293
BQCL6     00004 001 00A15A 13297 13301
BQCL7     00004 001 00A11C 13280 13305
BQCL8     00004 001 00A10A 13276 13310
BQCL9     00001 001 00A196 13311 13284 13295
BRDIRECT  00002 001 000D10 00997  0526
BRPFA     00004 001 00852A 10977 10953 29352
BRSDEV    00001     000002 28666
BRSROUT   00004 001 00DC48 18952 18397
BRSROUT1  00001 001 00DB60 18864 18856
BRSTCHN   00001     000002 28655 18869 18914 18952
BRTAB     00001 001 008512 10970 10964 29352
BRTRWAIT  00001 001 008994 11361 11382
BRTRWT1   00001 001 0089B2 11369 11363
BRTRWT2   00001 001 0089CA 11378 11368
BRUNC     00001     0000F0 29415
BSEADRS   00004 001 008784 11113  1541 11124 11139 11143 11148 11171 11453 11491 11542 11706 11805 12391 16268 16273
                              27276
BSEREG2   00004 001 00878C 11115 11122 11162 11666 15828 15998 16228
BTAM      00001     000040 28896  4851  8201  8370  8739  9023  9039  9835  9894 18037 19188
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
BTAM2     00001     000010 28907  8385  8390  9028  9041
BTDIR     00002 1D7 000006 28364  7230  7378  7443  7525  7537
BTHIO     00004 001 00DF16 19188 19226
BTHIODO   00004 001 00DF60 19208 19201
BTHIO0    00002 001 00DF12 19184 19130
BTHIO1    00004 001 00DF84 19216 19189
BTHIO2    00004 001 00DF8C 19218 19193
BTHIO3    00004 001 00DF30 19194 19191
BTHIO3X   00004 001 00DF78 19215 19195 19204 19208
BTMRC0    00002 001 0087A0 11126 12294
BTMRC12   00004 001 0087A6 11128 12297
BTMTCB    00004 001 011248 23439  8116
BTPFREE   00001 001 00938E 12231 11125
BTRET     00004 001 0087AA 11129 11127
BTRETRL   00004 001 0034BE 04219  3825
BTRIK     00001 001 00E2FC 19564 19507 19509 19529 19535
BTSAV     00004 001 0016E4 02061  3808  3812  3838  3841  4219 19094 19129 19192 19196 19216
BTTR      00001     000060 28898  3809  3839  4424 19190
BUCKDIS   00008 001 0008FE 00568  3748  3799  4387  4394 18738 19268
BUCKLNG   00001     000018 24726 24748 25507 25707 25816 26029 26138
BUFBIT    00001     000001 17494
BUFBND    00001     000075 29068  9121
BUFDEL    00001 001 00CA0F 17423
BUFFADR   00002 001 012E03 24337
BUMP      00002 001 006452 07243  7248
BUSOUT    00001     000020 28958
BUSTOVER  00001     000024 28959  5571
BUSY      00001     000010 28628  3921  3968  4478  4486  4488  4494  4508 17660 17662 17670 17672 19155
BUSYCHN   00001     000002 28598 18767
BVBIT     00001     000002 29598
BVIRTMEM  00004 1DA 000400 28326 15180 15198 15317 15356 15366 15385 15660 15668 15703 15712 15722 15735
BVISTAB   00004 1DA 000408 28328 15207 15229 15315 15368 15388 15662 15705
B3ACHK    00004 001 00DEEC 19168 19143
CA        00001     0000C1 29463
CAAI      00004 1E0 000174 28095
CACE      00004 1E0 000180 28098
CADRINP   00002 001 0123EF 23983
CADRINS   00002 001 0123EB 23981
CADRWRN   00002 001 0123F3 23985
CAHR      00004 1E0 00017C 28097  3992
CALCDUR   00001 001 000D96 01052  1050
CALLLNAM  00003 1EE 000061 27606 27608
CALLNAME  00008 1EE 000068 27611  6987  6989  7009  7076  7206  7219  7247  7326  7333  7352  7556  7593 14952 14959
                                  15003 15124
CALLPNAM  00004 1EE 00005C 27603  7132  7139  7328  7335  7364  7878
CALLRTA   00001 001 00C3DE 16652 17583
CALLSEQ   00008 1EE 00005C 27602  6573  6971  6979  6986  6991
CALL0     00001 001 00C3D8 16649 16645
CALTULP   00004 001 00B2D6 14590 14594
CANCEL    00001 001 000EF8 01207 20172
CANCELGR  00002 001 009172 12094 12081
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SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

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CANCEL0  00001 001 000E8C 01156  1147
CANCEL1  00001 001 000ECE 01190  1149  1155  1163
CANCEL2  00004 001 000EB8 01180  1177
CANCEL2A 00004 001 000EBC 01183  1179
CANCEL3  00001 001 000F36 01230  1211  1213  1222
CANCX1C  00001     00001C 29289 20088
CANCX1D  00001     00001D 29290 20122
CANCX1E  00001     00001E 29291
CANCX15  00001     000015 29284
CANCX17  00001     000017 29285 20174 20189
CANCX18  00001     000018 29286 20103 20191
CANCX20  00001     000020 29294
CANCX21  00001     000021 29295
CANCX23  00001     000023 29296  1226 20069 20180 20183
CANCX24  00001     000024 29297  1128
CAN1     00001     000006 28101
CAPB     00004 1E0 00016C 28072  1258  1284  4098 19555 19916 21450 21646
CAPF     00004 1E0 000178 28096
CARL     00004 1E0 000170 28085 28101
CARRY    00001     000003 28515 14548 14554 14577
CARTSIZE 00001     000002 29194
CATALDIR 00006 1D7 000008 28365  6539  7171  7192  7395
CATALSA  00001     000001 29414  4332
CATHHDIR 00002 1D7 00000C 28367  7390
CAW      00004 001 000048 00234  4474  4504  4792  4796 16700 18583 18628 18688 18689 18726
CA00     00004 1E0 000184 28099 18207
CA90     00004 1E0 000188 28100  1572
CB       00104 1E1 000000 27993  2200 18269 18269
CBCCB    00016 1E1 000008 28001 18284
CBCCBTI1 00001 1E1 00000A 28003 18264 18274
CBCCBUN  00002 1E1 00000E 28006 18282
CBCCB1   00002 001 013778 24476
CBCCB2   00002 001 013710 24464
CBCCB3   00002 001 0136A8 24452
CBCCB4   00002 001 013640 24440
CBCCB5   00002 001 0135D8 24428
CBCCB6   00002 001 013570 24416
CBCCB7   00002 001 013508 24404
CBCCB8   00002 001 0134A0 24392
CBCCW    00008 1E1 000000 27994
CBCCWBC  00002 1E1 000006 27999 18277
CBCCWCB  00001 1E1 000004 27997 18281
CBCCWCC  00001 1E1 000000 27995 18280
CBCCW1   00008 001 013770 24474 24482
CBCCW2   00008 001 013708 24462 24470
CBCCW3   00008 001 0136A0 24450 24458
CBCCW4   00008 001 013638 24438 24446
CBCCW5   00008 001 0135D0 24426 24434
CBCCW6   00008 001 013568 24414 24422
CBCCW7   00008 001 013500 24402 24410
CBCCW8   00008 001 013498 24390 24398
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
CBDATA   00080 1E1 000018 28012  2200
CBDATA1  00080 001 013788 24485 24474
CBDATA2  00080 001 013720 24473 24462
CBDATA3  00080 001 0136B8 24461 24450
CBDATA4  00080 001 013650 24449 24438
CBDATA5  00080 001 0135E8 24437 24426
CBDATA6  00080 001 013580 24425 24414
CBDATA7  00080 001 013518 24413 24402
CBDATA8  00080 001 0134B0 24401 24390
CBDSECT  00001 1E1 000000 27992 18263
CBEND    00004 001 001890 02203  4054 18270
CBFBND   00001     00007D 29074 18266
CBFREE   00004 001 00D4A6 18269 18265
CBIT     00001     000002 29673 15911
CBMAX    00002 001 00188A 02201 18250
CBMVC    00006 001 001884 02200 18279
CBNEXT   00004 001 00188C 02202 18262 18273
CBTAB    00008 001 013498 24389  2202  2203  2204
CBTABAD  00004 001 001894 02204  4052 18272
CBUF     00004 001 0079F4 09544 22673
CBVSM    00004 001 000E48 01132  1129
CB1      00004 001 00D45A 18246
CC       00001     000040 29245  2127  2128  2129  2138  2139  2140  2141  2144  2145  2146  2152  2167  2168  2173
                                 2174  2178  4268  6109  6123  6453  6454  6455  6456  6463  6468  6469  6472  6473
                                 6476  6477  6599  6600  6601  7456  8271  8479  8517 18554 18630 18967 27455 27456
                                27459 27460 27462 27463 27467 27468 27469 27470 27472
CCACT    00001     000020 17472 17126
CCBA     00002 001 00A350 13456 13356 13371
CCBACB   00004 1FF 000020 27335  8205  8212  8212  8248  8667  9245  9275  9378  9411 10416
CCBADR   00001 1FF 000000 27317  0211  7134  7341  7467  8133  8214  8236  8892  8910  9057  9083  9151  9170  9172
                                 9175  9177  9431 10301 10574 10575 10576 10577 12116 13344 13431 14400 16422 17512
                                17972 19185 19355 19946 20250 21793 22552 27179
CCBADSNS 00004 001 00C7F8 17154
CCBB     00002 001 00A360 13466 13345 13386
CCBBPT   00002 1FF 000042 27343  9047  9442  9662  9714  9996 10435 10518 10564 10567 10574 10576
CCBBY3   00001 1FF 00000C 27327  3788  3916  4048  4060  4101  4229  4898  5150  6039  8239  9173  9376 10144 10298
                                17294 17999 18241 18326 18460 19244
CCBCCW   00004 1FF 000008 27326  4088  5139  5289  5514  6354  8214  8214  8252  8256 10150 10287 17265 18034 18245
                                18416 18446 18725 19194
CCBCLS   00001 1FF 000006 27324  3809  3839  4170  4424  4851  5141  5216  6362  8201  8237  8370  8739  9023  9039
                                 9100  9835  9894 10110 18035 18037 18040 18049 18072 18074 18243 18282 18298 18421
                                19188 19190 19357
CCBCNT   00002 1FF 000000 27318  4227  8216  9170  9170  9187  9188 10564 10566 10567 10569 10570 10590 28938 28939
CCBCOM1  00001 1FF 000002 27319  0704  4051  4103  4344  4353  4654  4900  5152  5154  5161  5222  5236  5361  6241
                                 6256  6369  7270  9183  9505 13351 13362 13377 13392 14415 14849 16914 17249 17296
                                17299 17992 17996 18185 18239 18283 18486 18721 19014 19140 19373 19947 19951 19962
                                20252
CCBCOM2  00001 1FF 000003 27320  4924  5134  5685  5687  5772  5773  5929  5933  9184 13354 13365 13380 13395 17251
                                17993 18186 18285 18487 18722 19141
CCBCOPY  00001     000020 28897  4170  5141  8201  8237  9023  9039  9100
CCBCSWW  00003 1FF 00000D 27328  3823  3918  4063  4066  4069  4082  4090  4231  9175  9175  9374  9386 18007
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

CCBFLAG  00001 1FF 00001A 27332  5143  8385  8390  8396  8398  8399  8757  8882  8889  8912  9028  9041  9061  9178
                                 9189  9218  9224  9230  9231  9391  9398  9781  9845  9989 10001 10002 10005 10183
                                10403 10440 10444
CCBFPT   00002 1FF 000040 27342 10566 10569 10570 10575 10577 10590
CCBICB   00004 1FF 000024 27336  8207  8210  8210  8356  8381  8382  8604  8609  8610  9249  9413 10418
CCBITS   00001     000030 29399 20972
CCBLNG   00001     00000F 29140  9420 18032
CCBLNO   00001 1FF 000007 27325  5215  6361 10108 18017 18053 18064 18069 18077 19356
CCBMOVE  00004 001 00795A 09495 11059
CCBNEXT  00004 1FF 000044 27339  8232  9063  9151  9166  9216  9217  9217  9431  9507  9998 10442
CCBNOTAV 00001 001 002F6E 03780  3772
CCBPHYAD 00001     000008 28899  5216  6362 10110 18049 19357
CCBPIK   00002 1FF 000018 27331  8231  9503
CCBRCB   00004 1FF 00003C 27341  5145  8914 10006 10324 10407 10442
CCBSAVAR 00004 001 0122D0 23746
CCBSENS  00008 1FF 000010 27329  4933  8241  8243 10301
CCBSTA   00002 1FF 000004 27321  3998  4232  4345  5162 17295
CCBSTA1  00001 1FF 000004 27322  5283  9185 17994 18013 18187 18488 18723
CCBSTA2  00001 1FF 000005 27323  5249  5270  5279  5281  9186 17995 18188 18489 18724
CCBUFBIT 00001     000004 17495
CCBUFFER 00001     000200 17493
CCBVA    00004 1FF 00001C 27334  3818  8213  8234  9169  9253  9417  9888 10280 10300 19192
CCBXINF  00024 1FF 000028 27337  8811  8893  8894  9852  9853
CCBXPTR  00004 1FF 000040 27338  8818  8821  8898  8905  8907  8907  9853  9858 10319 27340
CCDAMAGE 00004 001 00C5B8 16959 16954 16956
CCDASDB  00001     000002 17496 17007 17247 17289
CCDASDCK 00001 001 00C86C 17277 17252 17258
CCDASDE  00004 001 00C812 17247 17155
CCDASDHC 00001 001 00C8B8 17298 17283
CCDASDI  00001 001 00C860 17272 17261
CCDASDRT 00001 001 00C82C 17253 17250
CCDASDTC 00004 001 00C894 17289 17285
CCDCEXIT 00004 001 00C5EC 16971 16967
CCENTADR 00004 001 00C960 17351
CCENTRY1 00004 001 00C4F6 16897  3769  4465 17351 19151
CCENTRY2 00001 001 00C5F6 16981  3784  4516 16958 16969
CCERRBIT 00001     000008 17458
CCEXIT2  00001 001 00C6A2 17036 16991 17009 17125
CCEXIT2C 00004 001 00C69E 17035 16988 17023
CCEXIT3  00004 001 00C804 17157 16984 17002 17017 17019
CCEXIT4  00001 001 00C80C 17160 16951 17146
CCHHR    00001 001 0016CE 02048  2129  2139  6551  6563  6601  7226  7263  7269  7282  7284  7286  7781  7786  7841
                                 7846
CCHHR2   00005 001 0016D3 02053  2154  2169  7227  7263  7269  7286
CCINITRG 00001     000004 17459
CCNOTIN  00001 001 00C584 16942 16940
CCNOTINT 00004 001 00C632 17003 17000
CCNOT10  00001 001 00C7F8 17153 17006 17150
CCONST   00004 001 00A7B8 13855 12722
CCRASACT 00001 001 00C588 16945 16920
CCRASAC1 00001 001 00C5A0 16952
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
CCRASRDY 00001 001 00C56A 16932 16923 16925
CCRTYCHK 00004 001 00C64E 17011 17004
CCRTYTST 00004 001 00C65E 17016 17013
CCSAVE3  00004 001 00C8C8 17310 17127 17144
CCSAVE4  00004 001 00C8CC 17311
CCSAVE5  00004 001 00C8D0 17312 17021
CCSENCCW 00008 001 00C8D8 17313
CCSETDMC 00006 001 00C5D2 16965 16962
CCSIOB   00001     000002 17460  4462 16999 17037 17157 17161 17260 17262 17293 19148
CCSIOFLG 00001     000080 17482
CCSNS    00001     000004 17475
CCT155   00006 001 00C7BC 17140 17138
CCWADR   00001 1F2 000000 27524  0214  1145  1854  3910  4216  4448  4558  4934  5973  6895  7163  7188  8136  8303
                                 8348 14898 17975 18254 18275 18344 18375 18436 18458 18482 18964 18974 19074 19440
                                22554
CCWBL    00072 1FD 000000 27378  9022  9022
CCWBLOCK 00001 1FD 000000 27377  8135  8673  8676  8684  8694  8701  8826  8829  8900  8902  8903  8931  9098  9147
                                 9191  9857  9863 10288
CCWBND   00001     00007B 29065  9110
CCWBUF   00004 1F2 000000 27527  5992  6130  6192  7657  7681  7795  7801  8292  8315  8324  8512  8575  8581  8622
                                 8623  8642  8645  8729  8749  8761  8795  8805  8838 18975
CCWCHAIN 00001 1F2 000004 27528  4935  5986  6015  6025  6027  6047  6066  6078  6109  6123  7661  7693  7796  7802
                                 8271  8451  8451  8477  8479  8517  8572  8574  8583  8597  8619  8624 18248 18281
                                18554 18967
CCWCODE  00001 1F2 000000 27526  6126  6128  6139  6142  6188  6190  7293  7809  8277  8279  8284  8290  8311  8333
                                 8335  8359  8446  8448  8450  8500  8502  8507  8514  8522  8528  8530 18042 18246
                                18280 18492 18550 18552 18965
CCWDEACT 00004 001 007A38 09581 14196
CCWDE1   00004 001 007A4C 09587  9590
CCWDE2   00004 001 007A54 09589  9586
CCWDE3   00004 001 007A66 09594  9592
CCWDE4   00004 001 007A70 09598  9585  9588
CCWDRS   00004 001 000041 00230  3760  3760  3811  3817  3842  3942  3942  4463  4463  4794
CCWERA   00004 001 006B80 08118  8170  8178  8417  8976  8987  9044  9054  9056  9067  9074  9104  9114  9270  9288
                                 9370  9407  9438  9451  9495  9514  9521  9538  9581  9595  9598  9645  9649  9748
                                 9757  9768  9802
CCWERA1  00004 001 00805C 10587  9706  9718
CCWGEN   00004 001 00684A 07638  7875 12034
CCWLNG   00002 1F2 000006 27530  4941  5975  6063  6197  7660  7676  8577 18022 18044 18250 18252 18257 18276
CCWNEXT  00001 1F2 000008 27531  4505  6032  6113  6125  6187  7654  8274  8313  8337 18584
CCWREST  00001 001 006D4C 08219  9896 10464
CCWRSVC  00004 001 007B0A 09768  9459 12965
CCWRSV0  00004 001 007B12 09773
CCWRSV1  00004 001 007B20 09777  9780  9782  9787  9800
CCWRSV11 00004 001 007B28 09779  9776
CCWRSV2  00001 001 007B44 09791  9785  9807
CCWRSV3  00001 001 007B66 09801  9774  9798  9805  9819
CCWRSV4  00002 001 007B6C 09804  9778
CCWSTRL  00002 1D4 00000E 28394 10143 10292
CCWTADR  00001 001 006B70 08108  0423  0546  1527  1785  3814  4173  4429  8164  8182  8419  9002  9372  9498  9523
                                 9533  9556  9566  9583  9644  9705  9710  9770  9790  9881  9988 10855 11366 12143
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES										
					12323	12490	12610	12950	12965	13174	13735	14080	14196	18302	22071
CCWTCB	00001	1FE	000000	27346	8140	8994	9086	9099	9772	9789	10450	10472	27646		
CCWTCB1	00004	001	010660	23308	8971										
CCWTCB10	00004	001	010DB0	23389											
CCWTCB11	00004	001	010E80	23398											
CCWTCB12	00004	001	010F50	23407											
CCWTCB13	00004	001	011020	23416											
CCWTCB14	00004	001	0110F0	23425											
CCWTCB15	00004	001	0111C0	23434											
CCWTCB2	00004	001	010730	23317											
CCWTCB3	00004	001	010800	23326											
CCWTCB4	00004	001	0108D0	23335											
CCWTCB5	00004	001	0109A0	23344											
CCWTCB6	00004	001	010A70	23353											
CCWTCB7	00004	001	010B40	23362											
CCWTCB8	00004	001	010C10	23371											
CCWTCB9	00004	001	010CE0	23380											
CCWTERR	00002	001	000B06	00777	9541										
CCWTOT	00008	1F2	000000	27525	5976	6148	7656	7737	7738	7748	7771	7773	8443		
CCWTRANS	00004	001	006CCC	08178	18303										
CCWTRBT2	00004	001	006CBC	08170	4430										
CCWTRB1	00001	001	006CD4	08180	8173										
CCWTR00	00004	001	006D02	08201	8191										
CCWTR00A	00001	001	006D2E	08211	8208										
CCWTR01	00006	001	006D42	08216	8203										
CCWTR01A	00001	001	006D4C	08218	8202										
CCWTR01B	00001	001	006D50	08226	8217	9893									
CCWTR02	00004	001	006D7C	08238	8215										
CCWTR1	00004	001	006D9E	08247	8240										
CCWTR10	00004	001	006E24	08297	8272	8280									
CCWTR11	00004	001	006E38	08306	8299										
CCWTR12	00004	001	006E4C	08311	8314										
CCWTR13	00004	001	006E5C	08315	8312										
CCWTR14	00002	001	006E70	08323	8270	8305									
CCWTR15	00004	001	006E72	08324	8287										
CCWTR16	00004	001	006E86	08332	8276										
CCWTR17	00004	001	006EB0	08342	8334										
CCWTR18	00006	001	006EBC	08347	8343										
CCWTR19	00004	001	006ECA	08356	8308										
CCWTR2	00004	001	006DC2	08269	8278										
CCWTR25	00002	001	006ED2	08358	8365										
CCWTR26	00004	001	006ED4	08359	8363										
CCWTR27	00004	001	006EE8	08364	8360										
CCWTR28	00001	001	006EF0	08369	8357										
CCWTR29	00001	001	006F0A	08379	8383										
CCWTR3	00004	001	006DCA	08271	8289										
CCWTR30	00004	001	006F1C	08384	8377										
CCWTR30A	00004	001	006F32	08390	8386										
CCWTR31	00001	001	006F3A	08392	8371										
CCWTR31A	00001	001	006F4A	08397	8391	8394	9080	9082							
CCWTR31B	00001	001	006F56	08401	10012										

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
CCWTR32  00001 001 006F62 08405  8400  8414 10004
CCWTR33  00004 001 006F86 08415  8408
CCWTR4   00004 001 006DD2 08273  8336  8344  8351
CCWTR5   00004 001 006DE2 08277  8328
CCWTR6   00002 001 006DF2 08281  8341
CCWTR7   00004 001 006DFC 08284  8319
CCWTR8   00004 001 006E14 08290  8285
CCWTR9   00004 001 006E20 08293  8291
CCWWORK  00008 001 0122F0 23760 23762 23763 23764 23765 23766 23767
CCYESCCB 00004 001 00C60E 16990 16986
CDATROUT 00004 001 00606C 06833  6830
CDBIT    00001     000008 29592
CDEACT   00001     000010 29099  6844 11054 14177 14215
CDELEX   00001     000008 29098  3592  3595  3597  6850 14891
CDLCALLS 00008 001 00B81C 15130 14973 15078 15125 15125 15126 15127
CDLDINIT 00004 001 00B6C2 15000 14988
CDLDMOVE 00006 001 00B6CA 15003 14992
CDLDNANC 00001 001 00B662 14966 14956
CDLDSETP 00004 001 00B6DC 15009 14955 14987
CDLMXP   00001     00000C 28528
CDLOAD   00001 001 00B63C 14912 14901 14907 22666
CEAPPBIT 00001     000002 29410
CEDETST  00001 001 003170 03944  3851  3922  4220
CEDETST1 00001 001 0031AE 03960  3953  3957
CEDETST2 00001 001 0031BA 03965  3946  3948  3950  3952  3955  3959
CENDDEND 00002 001 001784 02135
CE00     00001     000000 28136 28098
CHA      00008 001 00A300 13443 13421 13462 13503
CHAIN    00001     000040 29516
CHAINED  00008 001 0122F4 23765
CHANEND  00001     000008 28629  3846  3848  3872  4653  6036  6255 17674 18013 19922 19961
CHANER   00001     000039 28646  5281 19959
CHANNEND 00002 001 001786 02136
CHANN9   00001     000001 28968  4920  4925
CHANQ    00008 001 00FB18 22720  0384 18111 18113 18115 18117 18119 18122 23125
CHANSWCH 00001     000040 28662
CHAN9    00001     000002 28879  4924
CHAPOFF  00001     0000BF 29498 20394
CHAPSUB1 00004 001 00EE18 20935
CHAPSUB2 00004 001 00EE22 20938 20941
CHAPSUB3 00004 001 00EE30 20942 20948
CHARW    00008 001 00A320 13447 13327 13426
CHB      00008 001 00A328 13449 13472
CHBRW    00008 001 00A348 13453 13328
CHCHN    00001     000001 28645  3856  5582  5917
CHCKAPP  00001 001 002F8C 03790
CHDTA    00001     000008 28643  3856  5538
CHECKRC  00004 001 00AC50 14317 14291
CHECKR0  00001 001 00C3C8 16643 16544 16546
CHEND1   00006 001 003166 03942  3924
CHEND2   00002 001 0034CE 04224  3943
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
CHENTAD  00004 001 00DC44 18950  4482 18388 18734 18835 18911
CHGRID   00004 001 00D1F8 18011 18010
CHHR     00001 001 0016CF 02049
CHID     00001     0000A8 29529
CHKEND   00004 001 00BD60 15842 15924
CHKFEND  00002 001 0093AE 12244
CHKFIRST 00004 001 006926 07710  7704
CHKFREE  00004 001 0068CC 07685  7680
CHKJDUN  00004 001 00D6E6 18456 18445 18449
CHKNXT   00004 001 006A4E 07813  7808  7810
CHKPTID  00002 1DB 00005C 28281
CHKVAL   00004 001 0061BC 06984  6982
CHKVALP  00004 001 00BDDC 15875
CHNADR   00002 001 0000BA 00264  3723  3745  3747  3798  4359  4386  4393  4407  4507  4523  4791  5252  5294  5366
                                 6340 16963 16965 16966 16968 17143 18479 18883 19164 19243 19680
CHNBIT   00001     000001 28880  5134 17251
CHNCHK   00001     000006 28644  3765  3856  4459  4525  5281 17005 17012 17035 17124 19146
CHNCODE  00001     0000FC 17478 17011 17022
CHNDIS   00008 001 0008F6 00567  4360  4685  5369 18386 18732 19685
CHNDRT   00004 001 0034C6 04222  3847  3849  3870
CHNERR   00001     00003F 17308 17658 17666
CHNINERR 00001     000008 28653
CHNOK1   00001 001 002F48 03770  3766
CHNSTA   00004 001 000045 00232  3765  3844  3856  3912  3925  4459  4476  4525  4836  5148 17005 17012 17035 17124
                             17658 17666 19146 19957 19959
CHNTAB   00002 001 0101D8 23141  0395
CHNTBL   00001 1F7 000000 27432
CHNTNXT  00001 1F7 000002 27435
CHNTYPE  00001 1F7 000000 27433
CHQADR   00001 1F6 000000 27439  0213  5247  5511  6100 16424 17118 17974 18348 18349 19186 19966 20135 21294
CHQBND   00001     000079 29071  8410 18106
CHQCCBAD 00004 1F6 000000 27441  0807 18320 19225
CHQCHAIN 00001 1F6 000000 27440  4157  4167 18316 18321 18348 18351 18353 18360 18361 19112 19115 19121 19122 19218
                             19221
CHQIDS   00004 1F6 000004 27442 18319
CHQIRSPT 00001 1F6 000005 27444  4075  4136  4139  4144  5934  5941  6049  6100  6404 18137 18139 18153 18519 18678
CIDAR    00004 001 00185C 02182
CIDR     00001     0000B4 29583
CILSET   00001 1EE 000058 27600  7096  7099  7146  7149  7172  7179  7261  7358
CILTYPE  00001 001 0016BB 02041  7261  7272
CILUPERR 00002 001 000B04 00776  0752 16677
CINITSVC 00001     000002 29096  6835  6842 10966 11030 11710 14173
CKIRSDEQ 00004 001 0033BE 04136  4153
CLEARCNT 00004 001 00C1FA 16283 16294
CLEARDEL 00004 001 00C218 16292 16285
CLEARMSK 00004 001 0016E0 02058  1716  6082
CLEARMVC 00006 001 01DF78 27293 27163
CLEARPAR 00004 001 0090CC 12043 22659
CLEARPF  00001 001 009BB4 12924 12826
CLEARPNO 00002 001 01DF72 27291 27168 27258
CLEARSAV 00004 001 009BD4 12936 12925 12934
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
CLEARTAB 00004 001 00C1F4 16281 16254
CLOCK    00008 001 001530 01895 14528 14543 14545 14575 14589 14590 14593
CLOSE    00001     000080 29368  0826  6921 14026 19714 19852
CLOSEG   00004 001 008CCA 11698
CLPSE    00001     0000F0 14378 12720
CLRCOM1  00001     00001F 28890  9183 17992 18185 18274 18486 18721 19140
CLRCOM2  00001     000005 28891  9184 17993 18186 18285 18487 18722 19141
CLRUCIND 00001     000080 04666  4864  4885  5325
CMOVECCB 00001     000004 29097  6846  9436 11057
CMRGSVC  00004 001 00FA0C 22633 27132
CNCEL    00001 001 00E7BA 20163  1205
CNCEL0   00004 001 00E764 20103 19503
CNCEL2   00001 001 00E800 20182 20177
CNCEL4   00004 001 00E830 20198 20196
CNCLD    00001     000004 29490  0755  0757  1224  3677 14871 20067 20070 20110 20125 20127 20176 20181 20397 20495
CNCLEXIT 00002 001 000E18 01112  6688 20097
CNLRLS   00004 001 000EE2 01198  1192
CNTCCW   00008 001 0017F0 02154  2153  7456  7460  7771
CNTCOM   00002 001 0008F0 00560  7776  7778  7816  7818  8402  8404  8885  8887  9454 11684 12955 14780 14782 19908
                                 19910
CNTSCAN0 00004 001 00C13E 16212 16216
CNTSCAN1 00002 001 00C142 16213 16218
COMBAL   00004 001 00A8FC 13977 13974
COMEX    00004 1DB 000088 28301
COMLOOP  00006 001 00F38A 21608 21611
COMNAME  00008 1DB 000018 28251
COMPCLC  00006 001 0012D2 01606  0733  1146  6703  6711  7601 19168 19235 19493 19537 19628 20234 21127
COMPCOM  00001     00005B 29017  8514
COMREG   00001 1DB 000000 28245  0727  0747  1113  1201  1208  1264  1557  3908  4291  4805  7158  7614 11895 12047
                                 12131 13998 14521 14663 15012 15014 15550 15610 18194 18573 18654 19650 19939 28317
                                 28319
COMREJ   00001     000080 28955  5576  5608  5857  5901  6379
COMREND  00001 1DB 0000A8 28313
COMRGEXT 00001 001 000740 00403  0352  3036  3108  3180  3252
COMSVCE  00001 001 00F01E 21208 21070 21100 21145 21172
COMSVCO  00004 001 00F044 21228 21081 21110 21155 21181
COMTABA  00001 001 00F058 21241 21119 21192
CONDSDIR 00001 1D7 000000 28361  7124  7129  7363
CONFIG   00001 1DB 000034 28258
CONFIGR  00001 001 000684 00311  1095 16671
CONH2K   00002 001 00BF08 15960 15860 15864
CONS     00001     000000 29435  6755
CONSTYP1 00001     000001 23996
CONSTYP2 00001     000002 23997
CONSTYP3 00001     000004 23998
CONSTYP4 00001     000008 23999
CONT     00001     000008 24055
CONTCCW  00004 001 012320 23787
CONTPG   00001 001 00AA7E 14138 14146
CONTPUB  00004 001 005FBC 06763  6754  6756
CONTRDSV 00002 001 012324 23788
```

```
SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

CONTROL  00001     000003 28996  4308  5711  8502 18512
CONVERT  00002 001 00F04C 21230 21134
CONVERTD 00008 001 001528 01894 14602 14603 14604 14654 14655 14656 14736 14737 14738
CON0     00003 001 0080B0 10601  9095
CON256   00002 001 00C244 16303 16147 16150 16151
COPYBEND 00001 001 021000 27304 27116
CORBIT   00004 001 007C24 09870  9868
CORFIXIN 00004 001 007BA8 09830  9106  9128  9524  9593  9793  9809
CORFIX1  00002 001 007C06 09859  9864
CORFIX2  00001 001 007C18 09865  9855  9861
CORRECT  00006 001 00D8B0 18602 18622
COUNT    00004 001 00DB12 18821 18826
COUNTID  00001     00001C 28981  6151
COUNTPAR 00001     000008 23872
CPCMD    00020 001 001110 01428  1415  1417  1418  1419
CPGIN    00004 001 00A54A 13675 12784 13685
CPGIN1   00004 001 00A584 13691 13686 13688
CPGIN2   00006 001 00A570 13687 13675
CPTEAD   00004 001 009CD4 13020 12794 12822
CPTEOF   00002 001 009CF0 13027 12791 12846 12890
CPTEOF1  00002 001 009CF2 13028 12857 13073 13194 13209
CPTEOF2  00002 001 009CF4 13029 12862 13086 13196 13210 13257
CPUID    00004 001 000810 00480 17135 17137
CQDSP    00002 001 000B20 00796  0702  3906  4421  4559  4883  5253  5502  6220 17041 17606 18720 19095 19240 19963
CRADDR   00004 001 000014 00221  1114  1200  1209  1265  1556  3775  3907  4248  4282  4866  4887  6674  6822 12046
                                  12095 12130 14520 18193 19649 19698 19805 19937
CRBIT    00001     000004 29617
CREATREP 00004 001 007E16 10254  8395
CREATR1  00004 001 007E34 10262 10272
CREATR2  00004 001 007E5A 10274 10264 10268
CREATR3  00002 001 007EC8 10303 10299
CREATR4  00002 001 007ECA 10304 10316
CREATR5  00002 001 007EF2 10317 10305
CREATR6  00004 001 007F06 10323 10321
CREATUC  00001     0000E1 29028
CREG     00001     000008 28544 15223 15223 15244 15244 15245 15261 15261 15264 15264 15265 15274 15274 15432 15433
                                  15437 15447 15448 15448 15449 15451 15454 15464 15468
CRETRY   00001     000002 29552
CRGCODE  00001     0000FB 17476 17008 17014 17107
CRSAVE   00001     0001C0 29632
CRT      00001     000009 29208  1652  4127  4468  6248 16905 17282 17592 18961 19015
CRTABGN  00001 001 004C12 06494
CRTACTL  00008 001 0123D8 23895
CRTATCCB 00002 001 0122F8 23771
CRTATTH  00001     000010 02223  3867
CRTATTNT 00001 001 00108A 01379  3883
CRTATTPD 00001     000008 02236  3871  4472
CRTATTRQ 00001     000002 02238
CRTBLOCK 00002 001 001748 02108  0439
CRTBUAD  00002 001 012C8C 24251 24084
CRTBUSY  00001     000080 02232  3878 18698 18709 19065
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
CRTCBIT  00001     000001 23812
CRTCCB   00004 001 0122F8 23768
CRTCCW   00008 001 0122F0 23759 23760 23761 23777 24081
CRTCCWS  00008 001 0123D8 23894 23895
CRTCCW0  00008 001 0124D0 24080
CRTDATRD 00001     000010 02235
CRTDIR   00008 001 001810 02167  7223
CRTDSP1  00001     00000A 06495  1399 23725
CRTDSP2  00001     00000E 06498 18710
CRTEINF  00008 001 0018AC 02241 16913
CRTENTRY 00001 001 004C16 06497
CRTEOJ   00001     000020 02234
CRTEOJ0  00001     000001 02239
CRTERADR 00001     000008 02224  1654
CRTERPBT 00001     000080 02220
CRTERR   00001     000002 02226
CRTFCH2  00001 001 0060E8 06898  1394
CRTFETCH 00001     000020 02222  1383  3876 18696
CRTFLG   00001 001 0015D7 01958  1395  1959  2108  3882
CRTFLGHC 00001 001 01232B 23797
CRTFLG1  00001 001 0018A4 02219  1383  1654  3867  3876 18696
CRTFLG2  00001 001 0018A8 02231  3871  3878  4472  4854  4953 18698 18709 19065
CRTFREE  00001     000004 24056
CRTHCOPN 00001     000080 23798
CRTHCOVR 00001     000040 23799
CRTHCWRN 00001     000020 23800
CRTHOOKF 00008 001 001820 02169
CRTID    00001 001 00189F 02211
CRTIGN   00004 001 00E6FE 20003
CRTIOSB  00004 001 0122EC 23753
CRTIPL   00001     000010 23801
CRTNAME  00007 001 001898 02209  1390  7326
CRTNAM1  00001 001 0018A0 02213  2214
CRTNAM2  00001 001 012328 23791
CRTNEXT  00004 001 012318 23784
CRTNFND  00002 001 000B08 00779  7327
CRTPIK   00001 001 00174A 02109
CRTPOS1  00004 001 0123BC 23885 23886 23887
CRTPOS2  00001 001 0123C0 23888 23889
CRTPOS3  00001 001 0123C1 23890
CRTPSW   00004 001 012288 23724
CRTPSWM  00004 001 0122E8 23754
CRTPSW2  00004 001 01228C 23725  1402  3884
CRTPTR   00001 001 0007A1 00439 18118 18130
CRTPWR   00004 001 0123D4 23893
CRTRAS   00002 001 00C51A 16907 16902
CRTREDSP 00001     000004 02225
CRTREQID 00001 001 012329 23792
CRTRESQ  00001 001 010178 23125 18119
CRTRESQ2 00008 001 010180 23127 23125
CRTRQPD  00001     000004 02237
```

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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
CRTR0	00004	001	0122AC	23733	
CRTR1	00004	001	0122B0	23734	
CRTR10	00004	001	012294	23727	
CRTR11	00004	001	012298	23728	
CRTR12	00004	001	01229C	23729	
CRTR13	00004	001	0122A0	23730	
CRTR14	00004	001	0122A4	23731	
CRTR15	00004	001	0122A8	23732	
CRTR2	00004	001	0122B4	23735	
CRTR3	00004	001	0122B8	23736	
CRTR4	00004	001	0122BC	23737	
CRTR5	00004	001	0122C0	23738	
CRTR6	00004	001	0122C4	23739	
CRTR7	00004	001	0122C8	23740	
CRTR8	00004	001	0122CC	23741	
CRTR9	00004	001	012290	23726	
CRTSAV	00001	001	0121F0	23691	1401 2215 3881 6251 18705 23731
CRTSAVAR	00001	001	012280	23723	2111
CRTSBA1	00001	001	01253E	24135	
CRTSBA23	00002	001	01253F	24136	
CRTSENS	00001		000040	02233	4854 4953
CRTSF1	00001	001	012541	24137	
CRTSF10	00001	001	01281A	24182	
CRTSF11	00001	001	01286B	24187	
CRTSF12	00001	001	0128BC	24192	
CRTSF13	00001	001	01290D	24197	
CRTSF14	00001	001	01295E	24202	
CRTSF15	00001	001	0129AF	24207	
CRTSF16	00001	001	012A00	24212	
CRTSF17	00001	001	012A51	24217	
CRTSF18	00001	001	012AA2	24222	
CRTSF19	00001	001	012AF3	24227	
CRTSF2	00001	001	012592	24142	
CRTSF20	00001	001	012B44	24232	
CRTSF21	00001	001	012B95	24237	24023
CRTSF22	00001	001	012BE6	24241	24016 24024 24026
CRTSF3	00001	001	0125E3	24147	
CRTSF4	00001	001	012634	24152	
CRTSF5	00001	001	012685	24157	
CRTSF6	00001	001	0126D6	24162	
CRTSF7	00001	001	012727	24167	
CRTSF8	00001	001	012778	24172	
CRTSF9	00001	001	0127C9	24177	
CRTSNSI	00004	001	012310	23781	23780 23780
CRTSV1	00004	001	0122D0	23745	23746
CRTSV2	00004	001	0122D4	23747	
CRTSV3	00004	001	0122D8	23748	
CRTSV4	00004	001	0122DC	23749	
CRTSV5	00004	001	0122E0	23750	
CRTSV6	00004	001	0122E4	23751	
CRTSV7	00004	001	0122E8	23752	23754

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
CRTTAB   00001 001 001898 02207  0392  1381 16912 18704 23741
CRTTRNS  00001 001 004C08 06491  2167  2168  2217  6495  6498  6499 23725 23726
CRTUNITC 00001     000040 02221
CRTWCC   00001 001 01253D 24134 18715
CR0      00001     000000 28440 27173 27188 27188
CR1      00001     000001 28441 27173
CR14MSK  00004 001 00C3C0 16551 16428
CSAVEAR  00004 001 0122D0 23744
CSCANDE  00001 001 00A900 13978 13930 13932 14000 14004 14006 14008 14021 14023 14025 14030 14036
CSPE     00004 001 00A6B8 13794 12726
CSPE1    00004 001 00A6E4 13806 13804
CSPE2    00004 001 00A6D8 13803 13807
CSPE3    00004 001 00A700 13813 13809 13811
CSVRET   00001     000001 29095  6835  6842  7902  9112 10966 11017 11030 11710 12004 14173
CSW      00004 001 000040 00229  0230  0231  0232  0233  4228  4506  4797  5113  5129  5292  6278  9271 16897 17026
                                17140
CSWBT1   00002 001 0077E0 09276  9285
CSWBT2   00004 001 0077FA 09284  9277  9280
CSWBT3   00002 001 007804 09287  9274  9283
CSWCNT   00004 001 000046 00233  4226
CSWSTORD 00001 001 0037CC 04450 18770
CSWSTOR2 00004 001 0037DC 04457  4455
CSWSTRD  00001     000004 29311
CSWTRANS 00001 001 007810 09369  4174
CSWTRBTM 00001 001 0077CA 09269  3815
CSWTRSAV 00004 001 00C8C4 17306 17307
CSWTRSVC 00004 001 0077D2 09272  1528
CSWTR1   00002 001 00782E 09379  9389
CSWTR2   00004 001 00784C 09388  9380  9383
CSWTR3   00001 001 007854 09390  9375  9377  9387
CSWTR31  00001 001 00787C 09403  9401
CSWTR32  00001 001 007890 09409  9392
CSWTR4   00001 001 0078A8 09416  9405  9408  9414
CSWTR5   00004 001 0078C8 09428  9432
CSWTR6   00004 001 0078DA 09433  9430
CSWTR7   00004 001 0078E2 09436  9419  9422
CSWTR8   00001 001 0078E6 09437  9434
CSWTR81  00001 001 007906 09447  9440
CSWTR82  00001 001 00790A 09450  9444
CSWTR9   00004 001 007928 09460  9456  9458
CSWWORK  00008 001 0122F0 23761
CTD44    00004 001 00B502 14790 14774
CTFIX    00004 001 008A88 11487  7714
CTFIXADR 00004 001 008A84 11485 11487 11499 11504 11504 11757 11757 11831 11835 11835 12803 12803 12943 12943
CTFIXCHK 00004 001 008AB4 11499 11509
CTLR0    00001 001 01DF68 27286 27173 27187 27188
CTLR1    00001 001 01DF6C 27288
CUEND    00001     000020 28627  3852  3872  4351  4379  4488  4508 17660 17670 19155
CURAD    00007 1F1 000000 27536  4253  4254  4256  4258  4260  4261  4263  4274  4275  4277  4278 18581 18602 18618
                               18636 18647
CURPOINT 00004 1DA 000410 28330 15208 15226 15239 15243 15313 15663 15706
```

```
SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
CURRPUB2 00004 001 00DB3C 18832 18469 18808
CVRTBASE 00004 001 0008A8 00536 22707
CWA      00001     0000FC 29627
CYLEND   00004 001 004366 05772  5733  5739  5744
CZ       00001     0000E9 29464  4765  4767  5062  5064 18983 18985
C1BITSOF 00001     00003F 29387
DALC     00002 1DB 00003C 28266
DASD     00001     000060 28698  4134  4240  4490  4745  4830  4903  5132 17003 17154 18438 18525 18675
DASDCCL  00001     00000A 17483 17257
DATAADR  00008 001 0122F2 23763
DATACHK  00001     000008 28962  5567  5633  5800  5806  5834  5871  5909
DATACK   00004 001 00419A 05594  5568
DATEBIT  00001     000002 28516 14616 14637
DATEFLD  00006 001 001572 01912 14600 14600 14619 14620 14621 14738
DATEFLDS 00009 001 001572 01911 14664
DATEFLD2 00003 001 001578 01913 14656
DATEGEN  00004 001 00B3E2 14696 14610 14618 14635
DATEGMT  00004 001 00B3F0 14707 14599
DATEXIT  00004 001 006062 06830  6686
DAYSEXIT 00004 001 00B418 14718 14713
DAYTU    00004 001 001558 01902 14679
DAYVALUE 00008 001 001538 01896 14551
DC       00001     000080 29244  6109  8271  8477  8517 18967
DCHAN    00001     000004 29540
DCK370   00001 001 004580 05956  5874  5910
DCL      00002 001 00A370 13490 13332 13333
DCONST   00004 001 00A7C8 13864  1546 12780 13728 27279
DCPU     00001     000008 29539
DDALBLAD 00004 1FE 000038 27361  8778  8782  8790  9075
DDDYYFLD 00008 001 001548 01898  1899 14601 14653 14718 14731
DDLBLCNT 00002 1FE 00003C 27362  8792  8794
DDTBO    00002 1E3 000004 27795 17895
DDTENTRY 00001 1E3 000000 27791 17863
DDTKO    00001 1E3 000006 27796 17889
DDTNS    00001 1E3 000007 27797 17908 17914
DDTRPS   00008 1E3 000000 27792
DDTR0    00002 1E3 000002 27794 17897
DDTTC    00002 1E3 000000 27793 17910
DDT3330  00002 001 00D17C 17942 17852
DDT3340  00002 001 00D184 17949 17860
DDT3350  00002 001 00D18C 17956 17857
DEACT    00004 001 00A596 13702 13690
DEACTCD  00004 001 00AADA 14177 14193 14214
DEACTDL  00004 001 00AAF8 14188 14185
DEACTFLD 00001 001 00AC8A 14347 13913 13914 13916 13926 14097 14098 14098 14112 14133 14151 14307 14308 14310 14351
                           14353
DEACTGTR 00004 001 00AB6A 14225 14208
DEACTLL  00004 001 00ABA6 14245 14189 14192 14226 14242
DEACTLL1 00004 001 00ABBC 14253
DEACTP   00004 001 00A7DC 13886 13741
DEACTPF  00002 001 00AB3C 14210 14207
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SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

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DEACTPFR 00004 001 00AB72 14227 14217
DEACTR   00001 001 00A7E8 13892 14049
DEACTT   00004 001 00AAC4 14169 14160
DEACTT2  00002 001 00AAE2 14181 14175
DEACTT4  00004 001 00AB0C 14195 14174
DEACTT5  00001 001 00AB98 14239 14197 14203
DEACTT6  00004 001 00AB00 14191 14183
DEACTV   00004 001 00A7EA 13895 13889
DEACTXX  00002 001 00AB54 14218 14209
DEACT2   00001 001 00A5B2 13710 13708
DEACT3   00004 001 00A5CC 13718 13715
DEACT4   00004 001 00A5C0 13715 13717
DEACT5   00004 001 00A622 13742 13738 13740
DEACT6   00004 001 00A60E 13737 13733 13745 13748
DEACT7   00006 001 00A628 13744 13729
DEFIX    00002 001 008018 10514  9406
DEFIXALL 00004 001 007AB8 09703 11366 12323 12490 12610 13174 13735
DEFIXAL1 00004 001 007ACA 09712  9716
DEFIXCOE 00004 001 007A78 09645 12950
DEFIXCON 00001 001 007A8E 09651  9448
DEFIXSUB 00004 001 007A98 09655  9648  9653  9663
DEFIXSW  00001 001 0008C4 00544  9404 11383 11384 13730 13746
DELCAN   00001     000020 29222  1175  1663
DELENT   00004 001 00792E 09473  9792  9808
DELENTB  00004 001 007932 09475  1786
DELENTR  00004 001 008E70 11842  9484 11780 11793 11921 11957 11964 13014 14269 16267
DELENT1  00002 001 00793E 09478  9483
DELENT2  00004 001 007952 09484  9481
DELETE   00001 001 008DA0 11778 11755 11776
DELETENT 00004 001 00C0A0 16144 16133 16217 16292
DELETFIN 00004 001 00C0CE 16157 16155
DELFR    00004 001 009CAC 13007 13003
DELPGQU  00004 001 00ABDE 14268 14188 14234 14243
DELPHOEN 00002 001 008FC4 11955 11951
DELREPA  00004 001 007AE6 09748 12147 14084
DELREPA0 00004 001 007AF0 09751  9756
DELREPA1 00004 001 007B04 09757  9753
DELREPL  00004 001 007F32 10402  9755 10270
DELTA    00002 001 0080A4 10592 10257
DELTAB   00001 001 0123C2 23891
DELTINT  00001     000040 29497  3606 14863 14889 14892
DENTRY   00001     000002 29360  6981  6994 14973 15078
DEQNORM  00004 001 003428 04166  4161
DEQU     00001 001 008D56 11756 12869 12877 12881 12885
DEQUEU   00004 001 008048 10574  9993 10429 10437
DEQUEU1  00004 001 00804C 10575 10177
DEQUPHO  00004 001 008E92 11855 11826
DEQURQ   00001 001 00AB7A 14229 14220
DEQURQSV 00004 001 00AB94 14237 14233 14235
DEQUX    00006 001 009BDC 12943 12878 13324
DEQUXE   00004 001 009C48 12974 12954 12963 12969 12984 14267
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
DEQUX1   00004 001 009BEE 12947 12944
DEQUY    00004 001 008D4E 11754 12882
DEQUZ    00001 001 008D5C 11758 12804 12946
DESELECT 00004 001 00106C 01356  1299
DETASK   00001 001 0085FC 11045  6845
DETECT   00001     0000B0 29538
DEVAPRT  00004 001 0081A8 10667 10716
DEVBSY   00001     000080 28661  0709  3947  3966  4010  4129  4426  4441  4510  4555  4860  5041  5225  5291  5648
                                 6282  6310  6320  6343 16987 17001 17273 18371 18379 18708 18719 18779 19030 19059
                                19134 19261 19301 19975
DEVBUFF  00002 001 012D10 24328
DEVCDPTR 00004 1FE 000008 27351  8504
DEVCEND  00002 001 00177E 02132  3949  3974
DEVDASD  00004 001 008198 10663 10731 10734 10736 10738
DEVEND   00001     000004 28630  3846  3850  3862  3869  3872  3890  3970  4351  4494  4653  6036  6255 17674 18013
                                19924 19961
DEVERR   00001     000003 17309 17668
DEVFLG1  00001 1DB 000062 28284
DEVGOOD  00006 001 0010EA 01415  1412
DEVICE   00002 1DD 000002 28223 13331
DEVIRTP  00004 001 00A9C2 14068 14046
DEVLAST  00008 001 008126 10640 10681
DEVLIST  00001 001 008190 10660  8195 10700 10703 10714 10716 10719 10721 10731 10734 10736 10738 10740 10756 10758
                                10760 10768
DEVL1CD  00008 001 008146 10644 10662
DEVL1ST  00008 001 0080C6 10627 10661
DEVL2CD  00008 001 00814E 10645 10664
DEVL2ST  00008 001 0080E6 10632 10663
DEVL3CD  00008 001 008156 10646 10666
DEVL4CD  00008 001 00815E 10648 10668
DEVL5CD  00008 001 008166 10653 10672
DEVL6CD  00008 001 00816E 10654 10674
DEVL6ST  00008 001 008106 10636 10673
DEVL7CD  00008 001 008176 10655 10676
DEVL8CD  00008 001 00817E 10656 10678
DEVL9CD  00008 001 008186 10657 10680
DEVOK    00004 001 0010DA 01411  1408
DEVPRINT 00004 001 0081A0 10665 10714 10719 10721
DEVSTA   00004 001 000044 00231  3795  3846  3848  3850  3852  3854  3858  3862  3869  3872  3890  3921  3923  3949
                                 3968  3970  3974  3998  4232  4349  4351  4379  4470  4478  4486  4488  4494  4508
                                 4653  4790  5162 17295 17660 17662 17668 17670 17672 17674 18478 19155 19922 19924
                                19961
DEVSTPTR 00004 1FE 000004 27350  8196  8519
DEVTAPE  00004 001 0081C0 10675 10700
DEVTP    00004 001 008190 10661 10740
DEVTREND 00001 001 0082E0 10698 10769
DEVTRTAB 00001 001 0081E0 10697  8189 10699 10701 10705 10707 10709 10711 10713 10715 10718 10720 10722 10724 10726
                                10728 10730 10733 10735 10737 10739 10741 10743 10745 10747 10749 10751 10753 10755
                                10757 10759 10761 10763 10765 10767
DEVTYPE  00002 001 00818F 10659  8187  8189  8190  8192
DEVWORK  00002 001 00818E 10658  8194 10659
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
DEVZON   00001 001 000870 00512  0797  3989  4029  4133  4134  4240  4242  4745  4830  4903  4918  5132 17003 17045
                               17154 18096 18322 18417 18438 18440 18464 18523 18525 18542 18579 18675 18804 19090
                               19250 19251 19839
DEV1287  00004 001 0081B8 10673 10756
DEV2560  00004 001 0081B0 10671 10703
DEV3540  00004 001 0081D0 10679 10768
DEV3886  00004 001 0081C8 10677 10758
DEV3895  00004 001 0081D8 10681 10760
DFREER   00004 001 00A48E 13610 11456
DFREER1  00004 001 00A4EC 13635 13639
DIB      00001 1F1 000000 27535  4250 18578
DIBCONT  00004 001 003576 04274  4271
DIBENTRY 00001 001 00D95E 18653  4249 18577
DIBLGT   00001     000018 29124 18656
DIBPT    00002 1DB 000060 28283 18655
DIB3540  00004 001 003556 04266  4252
DIDADW   00001 1D5 000000 28383  8786  8917  8918 10010 10011
DIDAL    00001     000030 29478
DIDALCNT 00002 1FE 00003E 27363  8774  8800 10190
DIDAWAD  00004 1FE 000040 27364  8773  8799
DIDA1    00004 1D5 000000 28384  8787  8788  8795  8796  8802  8921  8924 10014 10015
DIDA2    00004 1D5 000004 28385  8789  8797  8922  8928 10016 10023
DIRAAA   00003 1F4 00001B 27497
DIRBLOCK 00001     000100 29256  2150  2167  2168  2168
DIRBUF   00001 001 005618 06616  2150  2152
DIRBUFE  00001 001 005A17 06618  2009  2012
DIRC     00001 1F4 000010 27491  7338
DIRECTRY 00001 1F4 000000 27485  4343  7085  7131  7238  7337  7428  7447
DIREEE   00003 1F4 000015 27494
DIRK     00001 1F4 00001E 27498
DIRLL    00002 1F4 00000E 27490
DIRN     00001 1F4 00000B 27488  7245  7432
DIRNAME  00008 1F4 000000 27486  7246  7247
DIRPAR   00001     000020 23870
DIRPPP   00003 1F4 000012 27493
DIRR     00001 1F4 00001A 27496
DIRREAD  00008 001 0017D8 02150  2148  7220
DIRRR    00002 1F4 000018 27495
DIRT     00001 1F4 000011 27492
DIRTT    00002 1F4 00000C 27489  7246  7434
DIRTTR   00003 1F4 000008 27487  7086  7133  7434  7464
DIRVEE   00003 1F4 00001F 27499
DISABLE  00001     0000FC 29393  5235  5258  5273  6663  6725  6779  6813 16705 17630 17652 19364 20287
DISABLPF 00001 001 0084F2 10961
DISCIN   00001     000008 29571
DISENG   00001     000020 28875
DISERR   00001     000020 28866  0704  4654  5154  5161  6256  6369  7270 13351 13362 13377 13392 16657 16914 17299
                               19373 19951 19962
DISKCONF 00001 1DB 00008E 28304
DISKERR  00001 001 00405A 05490  1918  6403  6421  6426 23647 23652
DISOPIND 00001     000086 29339
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
DISP     00001 001 005E18 06643  0511  1138  1195  1426  6644 17683 17684 20276 20323 20821 21728 21757 21764 23656
                                 23687 23739 27269
DISPAD   00004 001 00086C 00511  0769  0827  0843  0899  1154  1183  1307  1509  1790  6209  7314  7421  7903  9115
                                 9131  9569 10981 10992 11063 11644 11928 11977 12101 12555 12576 12677 12971 12992
                                15066 17065 17274 18424 19345 19582 19634 19893 20001 20549 27265
DISPCNT  00001     000004 23866
DISPID   00001     000014 29351  1135  6692  6837
DISPLC1  00004 001 0080B0 10604  8548
DISPLOI  00004 001 0070C0 08556  8769  9867
DISPLRTN 00002 001 0070A6 08547  8509  8523  8815  8832  9850
DISPLTM  00004 001 0070BC 08555  8510  8524  8742
DISREAL  00001     0000FA 29264  5990
DIVCONS1 00004 001 00155C 01903 14597 14697
DIVCONS2 00004 001 00156C 01907  1908 14595 14598 14698
DIV1     00001     000008 28438 13332 13401
DIV2     00001     000003 28439 13333 13406
DLBIT    00001     000001 29599
DLMSG    00001     000010 24511
DLOGOUT  00001 001 000200 00281 17444
DOCAIND  00001 001 0123E0 23900
DOCA01   00001     000001 23901
DOCA02   00001     000002 23902
DOCA04   00001     000004 23903
DOCCIND  00001 001 0123E1 23904
DOCC01   00001     000001 23905
DOCC02   00001     000002 23906
DOCC04   00001     000004 23907
DOCC08   00001     000008 23908
DOCC10   00001     000010 23909
DOCC20   00001     000020 23911
DOCC40   00001     000040 23912
DOCC80   00001     000080 23913
DOCDIND  00001 001 0123E2 23914
DOCD01   00001     000001 23915
DOCD02   00001     000002 23916
DOCD04   00001     000004 23918
DOCD08   00001     000008 23919
DOCEIND  00001 001 0123E3 23920
DOCE01   00001     000001 23921
DOCE02   00001     000002 23922
DOCE04   00001     000004 23923
DOCE08   00001     000008 23924
DOCE40   00001     000040 23925
DOCE80   00001     000080 23926
DOCGIND  00001 001 0123E4 23927
DOCG01   00001     000001 23928
DOCG02   00001     000002 23930
DOCG04   00001     000004 23931
DOCG08   00001     000008 23932
DOCG10   00001     000010 23933
DOCG40   00001     000040 23934
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                    10-02-19

DOCG80   00001     000080 23935
DOCLIND  00001 001 0123E5 23937
DOCL01   00001     000001 23938
DOCL02   00001     000002 23940
DOCL08   00001     000008 23941
DOCNIND  00001 001 0123E6 23942 18713
DOCN01   00001     000001 23943
DOCN02   00001     000002 23944
DOCN10   00001     000010 23945 18713
DOCN20   00001     000020 23946 18713
DOCN40   00001     000040 23947
DOCN80   00001     000080 23948
DOCOIND  00001 001 0123E7 23949
DOCOMPR  00001 001 002E32 03620  3567
DOCO01   00001     000001 23950
DOCO02   00001     000002 23952
DOCO04   00001     000004 23953
DOCO08   00001     000008 23954
DOCO10   00001     000010 23955
DOCPIND  00001 001 0123E8 23956
DOCP01   00001     000001 23957
DOCP20   00001     000020 23958
DOCP40   00001     000040 23959
DOCP80   00001     000080 23960
DOCQIND  00001 001 0123E9 23962
DOCQ01   00001     000001 23963
DOCQ02   00001     000002 23964
DOCQ04   00001     000004 23965
DOCQ20   00001     000020 23966
DOCQ40   00001     000040 23968
DOCQ80   00001     000080 23970
DOCRIND  00001 001 0123EA 23972
DOCR01   00001     000001 23973
DOCR02   00001     000002 23975
DOLLAR   00001     00005B 29425  7009
DOSPGMN  00004 001 0008DC 00554
DPDADR   00001 1DD 000000 28221 13330 13397
DPDTAB   00002 001 010590 23285  0457 26491 26496
DPFIX    00004 001 009DDA 13120 12553 12594 12867 13203
DPFIX1   00004 001 009DF8 13128 13124
DPFIX2   00002 001 009E10 13135 13131
DPFREE   00004 001 00A426 13571 12262
DPFREE1  00002 001 00A44C 13583 13579
DPFREE2  00004 001 00A446 13580 13588
DPFREE3  00004 001 00A486 13599 13594
DQIRSNRM 00006 001 0033F2 04151  4147
DRAPBIT  00001     000004 29653 11316 12439 13627
DRFCH    00001 001 006434 07233  7231
DSAVE    00001     000008 29477 29478
DSCU     00001     000002 29541
DSK      00001     000002 29201  4752 18144 18393 18774
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
DSKBLOCK 00002 001 001720 02083  0432
DSKCCB   00002 001 004AF6 06437  6353  6387
DSKCNTDN 00001     000020 04668  4835  4916  5030  6279
DSKCONF  00001 001 0006DE 00355  1101
DSKEXIT  00004 001 00491E 06267  6042  6216  6233  6244  6246  6257
DSKEX05  00006 001 00493E 06278  6276
DSKEX10  00004 001 004950 06282  6280
DSKEX15  00004 001 004992 06303  6284
DSKEX20  00001 001 0049B8 06313  6307
DSKEX25  00006 001 0049C0 06316  6299
DSKEX30  00004 001 0049D2 06320  6301  6315
DSKEX35  00001 001 0049D6 06321  6319
DSKEX40  00002 001 004A02 06336  6330
DSKEX45  00006 001 004A04 06337  6323  6325
DSKEX50  00006 001 004A0A 06338  6286  6289  6293  6309  6312
DSKFLG   00001 001 0015D0 01951  1952  2083  4758  5070  6277
DSKIDAL  00072 001 004B60 06464  6068  6069  6069  6104
DSKIOAG  00004 001 004A50 06364  6388
DSKIORTN 00004 001 004A2A 06353  5613  5785  6429
DSKIR010 00004 001 004A9A 06398  5752  6051  6097  6101  6152
DSKMLNG  00001     0000B0 23226  6338
DSKNCCB  00004 001 004100 05537  5510  5523
DSKOT010 00004 001 004AB4 06418  5496
DSKOT020 00004 001 004ABC 06420  6425
DSKOT030 00004 001 004ACC 06424  6434
DSKOT050 00004 001 004AD8 06427  6423
DSKPIK   00001 001 001722 02084
DSKPOSBG 00002 001 002B10 03272  0334
DSKPOSF1 00002 001 002CF0 03484  3019
DSKPOSF2 00002 001 002C78 03431  3091
DSKPOSF3 00002 001 002C00 03378  3163
DSKPOSF4 00002 001 002B88 03325  3235
DSKPTR   00001 001 00079A 00432 18112 18127
DSKRESQ  00008 001 010160 23122 18113
DSKSAVAR 00001 001 011FF0 23645  2086
DSKSEEK  00006 001 004B06 06447  5505  5524  5525  5526  5532  5533  5534  5535  5536  6171  6468
DSKSSK   00004 001 0040EA 05532  5530
DSKUSRSK 00002 001 004C04 06485  5521  5682  5702  5729  5749
DSTU     00001     000001 29542
DSVA     00001 1D6 000000 28372  7118  7186
DTFIX    00004 001 009D04 13052 11495 12876
DTFIXSTP 00004 001 009D32 13065 13058
DTFIX1   00004 001 009D3A 13067 13054
DTFIX2   00002 001 009D4A 13071 13068
DTFIX3   00004 001 009DCE 13104 13076
DTFIX4   00004 001 009DBA 13099 13087
DTFIX5   00004 001 009D20 13059 13106
DTFREE   00004 001 00A398 13517 11543
DUMDVC   00001     000008 29522  4806  4810
DUMMYPSW 00004 001 000840 00503  0504  0788
DUMPSW   00001     00000F 29429
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
DUROK	00004	001	000DAA	01060	1058
DYNAREA1	00004	1FE	00001C	27356	8457 8460 8602 8648 8775 8804 8817 8831 9220 9222 10269 10271
DYNAREA2	00004	1FE	000024	27357	9118 9119 9133 9134 9849 9851 9899 9901
DYNAREA3	00004	1FE	00002C	27358	8731 8807 9079 10275 10275 10278 10323
D0	00001		000000	29147	0773 0774 0776 0777 0779 0780 0781 0782 0785 0786 0821 1406 1459 1463
					1468 1475 1484 1503 1508 1522 1608 1618 1621 1715 1724 1773 1826 1829
					3580 3606 3618 3618 3684 3833 4151 4152 4166 4168 4267 4270 4279 4281
					4306 4308 4362 4370 4483 4530 4692 4891 5112 5146 5146 5218 5218 5711
					5927 5984 5993 5994 5994 6003 6003 6035 6076 6093 6108 6120 6144 6149
					6150 6221 6537 6542 6543 6560 6659 6761 6839 6987 6992 6999 7053 7076
					7206 7237 7333 7464 7476 7683 7689 7748 7848 7852 7853 7855 7863 8196
					8236 8325 8407 8552 8555 8556 8582 8585 8621 8625 8635 8651 8651 8707
					8730 8732 8762 8767 8809 8925 8945 8956 8957 8989 8996 9167 9209 9216
					9272 9393 9418 9421 9427 9428 9501 9655 9839 9870 10024 10119 10129 10151
					10170 10179 10282 10333 10333 10334 10334 10878 10968 11043 11050 11160 11197 11199
					11228 11278 11281 11345 11357 11585 11656 11671 11716 11717 11725 11727 11733 11737
					11775 11825 11855 11859 11862 11868 11871 11872 11884 11917 11931 11932 11933 11935
					11942 11948 11961 12016 12025 12026 12096 12106 12136 12137 12156 12158 12178 12187
					12189 12258 12281 12295 12304 12313 12316 12341 12389 12402 12405 12441 12446 12464
					12472 12506 12533 12573 12595 12622 12654 12655 12674 13007 13219 13220 13432 13590
					13900 13901 13910 13918 13919 13920 13921 13939 13944 13946 13949 13950 13985 14035
					14038 14044 14092 14106 14113 14129 14134 14144 14162 14206 14213 14231 14272 14273
					14274 14274 14295 14296 14313 14332 14424 14515 14745 14756 14763 14785 14793 14797
					14801 14863 14889 14892 14952 14978 15049 15052 15083 15120 15542 15582 16005 16060
					16073 16149 16162 16173 16175 16176 16511 16665 16971 16983 17836 18101 18142 18152
					18160 18255 18259 18309 18312 18317 18396 18414 18533 18585 18596 18605 18607 18618
					18632 18646 18855 18859 18865 18869 18891 18912 18914 18952 18977 19007 19142 19171
					19199 19264 19495 19498 19543 19677 19689 19723 19741 19799 19803 19808 19808 19897
					20168 20168 20305 20308 20347 20378 20383 20390 20390 20400 20400 20428 20432 20451
					20451 20593 20594 20596 20622 20622 20627 20627 20634 20634 20695 20702 20705 20733
					20736 20740 20775 20827 20846 20851 20914 20922 20923 20923 20924 20939 20945 21055
					21056 21069 21080 21144 21154 21219 21231 21245 21387 21575 27147 27148 27149 27152
					27153 27158 27162 27166 27190 27191 27204 27213 27216 27227 27238 27249 27256 27293
D1	00001		000001	29148	0824 0853 0855 0888 0995 1007 1009 1133 1135 1137 1196 1198 1321 1482
					1494 1520 1703 1703 1705 1778 1789 3609 3609 3647 3649 4052 4054 4262
					4280 4687 4689 4690 4792 5137 5267 5507 5561 5574 5580 5584 5636 5679
					5706 5724 5746 5749 5757 5759 5761 5763 5773 5788 5859 5861 5878 5886
					5888 5894 5903 5907 5911 5913 5936 5936 5938 5938 5947 5959 5962 6005
					6006 6033 6106 6160 6162 6164 6166 6381 6433 6543 6564 6568 6648 6649
					6668 6692 6699 6720 6837 6841 6912 6951 7221 7423 7444 7525 7622 7690
					7697 7708 7768 7777 7798 8214 8214 8216 8252 8256 8309 8338 8364 8403
					8512 8575 8605 8622 8622 8623 8645 8647 8673 8694 8782 8793 8805 8837
					8838 8900 9019 9026 9095 9113 9147 9188 9284 9388 9545 9549 10025 10134
					10158 10190 10285 10308 10786 10788 10797 10803 10831 10846 10848 10850 10852 10918
					10952 10954 11005 11008 11033 11227 11290 11298 11316 11319 11440 11451 11517 11555
					11573 11583 11585 11591 11600 11616 11648 11651 11704 11712 11712 11718 11722 11766
					11786 11808 11810 11810 11873 11877 11908 11916 12052 12059 12070 12097 12105 12154
					12169 12173 12174 12264 12268 12278 12313 12314 12330 12335 12336 12431 12439 12443
					12449 12451 12452 12472 12478 12480 12484 12498 12532 12533 12587 12593 12597 12617
					12621 12665 12666 13899 13902 13905 13914 13914 13922 13943 13946 13960 13965 13991
					14010 14070 14098 14103 14109 14294 14297 14300 14308 14308 14325 14514 14557 14682

SYMBOL	LEN	ID VALUE	DEFN	REFERENCES
				14707 14710 14714 14729 14756 14781 14869 14879 14879 15601 15732 16001 16016 16046
				16048 16048 16052 16067 16091 16172 16215 16221 16487 16687 17255 18008 18011 18020
				18022 18023 18044 18306 18340 18383 18389 18509 18600 18646 18647 18707 18728 18886
				19192 19192 19216 19338 19431 19544 19599 19666 19666 19794 20065 20104 20178 20187
				20251 20277 20419 20424 20429 20436 20473 20473 20513 20569 20609 20612 20613 20732
				20733 20773 20825 20827 20832 20851 20919 20933 20933 20938 20942 20944 20946 20947
				20953 20958 20959 20967 20969 20969 20970 20971 20982 21002 21050 21050 21056 21087
				21087 21131 21243 21267 21268 21268 21284 21349 21391 21452 21454 21566 21752 21782
				27122 27142 27150 27178 27234 27243 27257
D10	00001	00000A	29157	5824 14517 16648 19877 27145 27151 27193 27212
D11	00001	00000B	29158	1471 1487 1496 1500 1732 1737 8594 8813 8926 9842 14794 14798 19898 19905
				21347 27167 27203 27226 27237 27246
D112	00001	000070	29189	8698
D119	00001	000077	29190	20955
D12	00001	00000C	29159	11503 12018 12103 19617 20342 20391 20391 21019 21038
D120	00001	000078	29191	20414 20481 20483 20486 20532
D127	00001	00007F	29192	20345 20479
D128	00001	000080	29193	20415
D13	00001	00000D	29160	20419 20580
D15	00001	00000F	29161	20592
D16	00001	000010	29162	8241 10146 10802 12019 12063 12110 14676 19211 20565 20782 20784 27198 27208 27221
				27230
D17	00001	000011	29163	8611
D18	00001	000012	29164	
D2	00001	000002	29149	0819 3617 3751 3775 4314 4866 4867 4887 4888 5505 5521 5532 5533 5536
				5758 5808 5832 5836 5867 5915 5957 5963 5975 6151 6163 6172 6172 6197
				6383 6456 6538 6676 7055 7205 7241 8508 8711 10114 10138 10138 10259 10326
				10410 11006 11048 11346 11669 12084 12385 12619 12672 13221 13221 13222 13222 13223
				13223 13744 13903 13989 14082 14089 14298 14330 14588 14709 14787 15047 15568 15635
				16002 16108 16113 16117 16131 16286 16686 16690 17546 18602 18618 18812 18994 19271
				20197 20309 20368 20405 20546 20558 20560 20689 20833 20972 21032 21288 21456 21458
				21734 27158 27164 27205 27217 27228 27239 27251 27253 27255 27293 27460 27470
D20	00001	000014	29165	10819 10873
D2047	00001	0007FF	29195	8630 12090
D2048	00001	000800	29196	8627 11301 11320 11334 11347 11391 11457 12413
D23	00001	000017	29166	8894 19209
D24	00001	000018	29167	8897 11497 18604
D28	00001	00001C	29168	
D3	00001	000003	29150	1488 1733 5524 7515 9480 11662 11816 11817 11822 12083 12461 12585 12596 12945
				13002 14184 14747 15233 15638 16265 16685 18636 18636 18647 18821 18823 19791 19796
				19904 20352 20687 20836 20838 20973 21375
D32	00001	000020	29169	
D36	00001	000024	29170	11607
D37	00001	000025	29171	19599
D4	00001	000004	29151	1409 1413 1447 1491 1708 1721 1734 1782 1824 1856 4219 4268 4278 4868
				4889 5256 5274 5363 5535 5977 6036 6038 6045 6047 6056 6371 7404 7456
				7460 7684 7694 8362 8463 8464 8633 8637 9482 9485 9599 10799 10801 10881
				11329 11589 11694 11735 11795 11852 11857 11863 11867 11869 11875 11931 11932 11933
				11952 12012 12023 12238 12339 12407 12408 12414 12423 12566 12567 12568 12623 12627
				13004 13013 14139 14223 14754 14878 14973 15078 16089 16179 16199 16262 16666 16913
				17642 17822 18630 18798 18813 19173 19434 19549 19550 20202 20230 20312 20350 20389

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
                                  20402 20452 20772 21037 27168 27258
D40       00001     000028 29172 19198 19212
D44       00001     00002C 29173 19598 20416
D47       00001     00002F 29174 19210
D48       00001     000030 29175 20417 20418
D5        00001     000005 29152  1415  3806  4258  4260  5524  5525  5526  5534  5538  5582  5713  5726  5731  5762
                                  6029  6155  6161  6174  6454  6476  7804 11003 12650 14478 14497 20231 27456 27462
                                 27468
D56       00001     000038 29176
D6        00001     000006 29153  1678  1683  3744  3745  4253  4254  4256  4274  4275  4277  4980  4982  5525  5527
                                  6010  6010  6024  6046  6059 10136 10136 13426 19855 20985 21283 27250 27252 27254
D60       00001     00003C 29177 16490
D67       00001     000043 29178
D68       00001     000044 29179 27121 27127 27127
D69       00001     000045 29180
D7        00001     000007 29154  1684 13427 21564
D71       00001     000047 29181 20357 21213
D72       00001     000048 29182 27120
D8        00001     000008 29155  1136  1417  3746  4081  4089  4266  4272  4793  5368  5946  6146  6562  7214  7407
                                  7749  7813  8441  8708  8777  8798  8929 10026 10148 10302 11300 11321 11582 11617
                                 12013 12342 12424 12453 12499 12634 12637 13421 16019 16064 16103 16149 16162 16177
                                 16212 18134 18385 18531 18587 18609 18634 18731 18737 19197 19202 19206 19267 19523
                                 20195 20255 20355 20413 20413 20441 20543 20547 20547 21352 21357 21359 21361 21363
                                 21415 21788 27169 27245 27260 27263
D80       00001     000050 29183
D87       00001     000057 29184
D88       00001     000058 29185
D9        00001     000009 29156 19540 19544 19545 21374
D93       00001     00005D 29186
D95       00001     00005F 29187
D96       00001     000060 29188
E         00001     000008 28579  0799  0911  1037  1066  1351  1476  1607  1615  1675  3969  4420  9479 11161 11353
                                 11438 11619 11844 12192 12249 12675 13001 13896 14222 18876 19113 19272 19538 20184
                                 20186 20188 20190 20192 20786 20837 20901
ECBIT     00001     000008 29403  6702  6723 11005 11033 11517 16091 20970
ECCBITS   00001     0000FE 29628
ECCMAIN   00012 001 00C9FC 17414
ECFCCWCT  00004 001 004B14 06451  5975  5982  6012  6184  6186  6197
ECFCCWS   00008 001 004B20 06453  6156
ECFCCW4   00008 001 004B48 06458  5976  5977  6017  6022  6045  6046  6047  6056  6059  6065  6106  6136  6137  6141
ECFCEDE   00001 001 004678 06031  6124
ECFCOUNT  00004 001 004B0C 06449  5962  5965  6013  6183  6185
ECFCPEND  00001 001 0047E8 06147  6140
ECFCSWW   00004 001 004B54 06462  6011  6011  6053  6114
ECFDCHN   00001 001 00486A 06182  6016
ECFDISP   00004 001 004B10 06450  5963  5966
ECFDOEND  00004 001 00479A 06125  6110
ECFDORMC  00006 001 0047F4 06151  6112  6116
ECFENDRT  00004 001 00466C 06027  6020
ECFEORCD  00001 001 004782 06118  6021  6028
ECFEOSEG  00001 001 004626 06009  5983  6199
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
ECFINCR  00001 001 00461A 06004  5985  5987  5998
ECFIRSTP 00001 001 004B54 06461  6054  6111  6115  6154
ECFLOOP  00001 001 0045D0 05980  6007  6200
ECFNEWCT 00001 001 00489E 06196  6189  6191
ECFNOMT  00001 001 0047E4 06145  6138  6143
ECFNOTIC 00001 001 0047BE 06134  6127  6129
ECFNOTPM 00001 001 00460C 06000  5989
ECFPSTIL 00004 001 004674 06029  6026
ECFRDCNT 00008 001 004B58 06463  6141
ECFRM010 00004 001 0046A0 06044  6018
ECFRM020 00004 001 0046A8 06046  6023
ECFRM025 00004 001 0046CA 06056  6050
ECFRM030 00002 001 0046F8 06070  6067  6090
ECFRM035 00004 001 004730 06092  6061  6074
ECFRM040 00004 001 00473C 06096  6086
ECFRM050 00004 001 00475A 06107  6057  6079
ECFSFM   00008 001 004B28 06454  6155  6454
ECFSKADR 00008 001 004B18 06452  6151  6157  6453  6455  6456
ECFTRUNC 00001 001 004862 06177  6122
ECMACNT  00002 001 00C9FC 17415
ECMLCNT  00002 001 00C9FE 17416
ECMLTME  00004 001 00CA04 17418
ECM1TME  00004 001 00CA00 17417
ECSWST   00001     000080 17497 16946 17142
ECSWSTB  00001     000080 29534
ECSWVAL  00001     0000B2 29555 16909 16948 16953 16957
EDBIT    00001     000004 29593 16439
EDCCWF   00008 001 004BE0 06476  5713  5726  5731  6476
EDCCWH   00008 001 004BB0 06468  5782  6443
EDCCWH1  00008 001 004BB8 06469  6428
EDCCWR   00008 001 004BA8 06466  5612
EDCCWS   00008 001 004BC8 06472  5754
EDCCWT   00008 001 004BF0 06478  5706  5724  6478
EDHA     00005 001 004BF8 06480  5700  5727  5749  5788  6433  6466  6469  6477
EDR0     00002 001 004C00 06483  5682  5702  5729  5745  5747  6470  6473  6484
EDSA     00002 001 004BFE 06482  5755  6472
EDSRCH   00008 001 004BD0 06473  6474
EIGHT    00001     000008 29420 12164 17851
ELEVEN   00001     00000B 29422 12161 15907 15918
ELOG145  00006 001 00C7B6 17139 17136
EMGCODE  00001     0000C1 17489 16532
EMGENT   00001 001 00C3D0 16646 16658 16721
EMGEXIT  00001     000008 17473 16535 16676 16694
EMGEX0   00004 001 00C376 16517 17281
EMGEX1   00002 001 00C37A 16519 16949
EMGEX4   00002 001 00C380 16522 16960 16964
EMGEX5   00002 001 00C382 16523 17130
EMGEX6   00002 001 00C384 16524 16947
EMGEX7   00002 001 00C386 16525 17152
EMGEX8   00002 001 00C388 16526 16659 17279 17287
EMGEX9   00001 001 00C38A 16527 16432 16435 16440 16447 16450 16452 16464 16509
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
EMGHWT   00004 001 00C4BA 16722 16707 17665
EMGSIO   00001 001 00C4A0 16713 16708
EMGSIOTC 00002 001 00C4B4 16720 16726
EMGSIO2  00004 001 00C4C2 16725 16716
EMGWAIT  00001 001 00C486 16704
EMPTY    00001     000010 28453 18817
EMPTYSW  00004 001 008DEC 11799 11783 11796
ENABDAT  00004 001 0082FE 10792 10789 27178
ENABEXIT 00001 001 005E25 06652 27270
ENABLE   00001     000003 29388  5220  5276  6705  6724  6728 10959 19358 19370 19525 20285 27270
ENABLIO  00001     000002 29389 16710 17635 17656
ENABVIR  00001     000005 29265
ENDAD    00007 1F1 00000A 27538 18581 18636
ENDADR   00004 001 00BEF4 15955 15852 15866
ENDIDAL  00001     0000FF 29479
ENDJOB   00008 001 0015A2 01926  1231
ENDPUB   00001     0000FF 28509
ENDRSTX  00004 001 00DBC2 18891  4415
ENDSEP   00001     000040 27682
ENDSGN   00001     000030 28454 18829
ENDSIGN  00001     00005C 29424
ENQDEQ   00002 001 00F4AC 21779 21724 21751
ENQTOP   00004 001 008036 10566 10329
ENQTOP0  00002 001 008030 10563  9229  9396 10178
ENQU     00001 001 008C04 11643 10943 11336 11520 16095
ENQUPHO  00001 001 008CEC 11709 11657
ENTEXT   00004 001 000D12 01006  0239
ENTIO    00004 001 000B86 00852  0247
ENTPCK   00001 001 0082E0 10780  0243
ENTRPNT  00001     00000C 28531 15102
ENTRYAAA 00003 1EE 000083 27629  7410
ENTRYC   00001 1EE 000078 27622  7090  7092  7097  7103  7126  7140  7356  7360  7400  7503  7559  7879 14980 14983
                                 15098
ENTRYEEE 00003 1EE 00007D 27625  7399 15089
ENTRYFND 00004 001 006582 07356  7007  7190
ENTRYK   00001 1EE 000086 27630  7124  7129  7363
ENTRYL   00001     000014 28534 14962 14993 15072 15649 15694
ENTRYLL  00002 1EE 000076 27621  7373  7514  7660 15063 15095
ENTRYMV  00006 001 0066AC 07464  7435
ENTRYN   00001 1EE 000073 27619  7433
ENTRYPPP 00003 1EE 00007A 27624  7398 15088
ENTRYR   00001 1EE 000082 27628
ENTRYRN  00001 1EE 000072 27618  7376
ENTRYRR  00002 1EE 000080 27626  7825  7873
ENTRYSAV 00026 1EE 000070 27612  7086  7133  7353  7464 14967 14967
ENTRYT   00001 1EE 000079 27623  7088
ENTRYTT  00002 1EE 000074 27620  7370  7512  7585 15060 15092
ENTRYTTR 00003 1EE 000070 27616  7389
ENTRYVEE 00003 1EE 000087 27631  7881
ENTSVC   00004 001 000C5A 00934  0241
ENVD370  00001 001 004572 05950  5868  5916
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
EOB       00001     0000FF 29646  8311  8340  8359  8637  8647  8802  8918 10011
EOC       00001     000020 28874  5772  5933  6565  7280
EOCADDR   00004 001 0007E4 00461  1465  1482  1706  1725  1867  7488  8735 11207 11436 11789 12260 13088 13795 14750
                              18020 18023 18293 18594 18616 18644 27133 27138 27242
EOCADR    00004 1DB 000030 28257
EOCL      00001     000080 29645  8249  8250  8279  8335  8696  8697  8707  8708  8778  8788  9075
EOC370    00001 001 004534 05932  5887  5912
EOF       00001     000040 28865  4344
EOF2501   00001     000004 18454  4348 18448 18450 18455
EOSSP     00002 1DB 00000A 28248
EOSSPR    00001     021000 27307  0301  2986  3058  3130  3202 27308
EOVSADR   00004 001 000680 00310  1600  1870  8836 15540 15691
EPAGETAB  00008 001 00C270 16310 16302
EQUIPCHK  00001     000010 28961  5559  5633  5828  5869  5896  6178
ERA       00004 001 000850 00508  0509  0859  0897  0934  0967  1013  6718  6721 10782 10802 10818 10819 10824 10872
                              10873 11000 11022 11034 11037 11335 11510 16086 16491
ERASWRIT  00001     000005 29000
ERBIT     00001     000002 29594
ERBLOC    00004 001 010260 23161  0372  1677  4743  5036  5493  6268  6378 18982 19816 19890 20006
ERG       00001     000017 29010
ERP       00001     00000B 29210 18972 19237 19789 19875
ERPBASE   00004 001 000890 00530  1680  1755  6807 19992 22702
ERPBLOCK  00002 001 001750 02113  0441 19871
ERPEXIT   00004 001 00E5A2 19889  1757
ERPEXITY  00004 001 001430 01755 23167
ERPFLG    00001 001 0015D9 01960  1961  2113  4769  5066 19997
ERPIB     00001 001 00CA14 17428
ERPIBA    00004 001 00C95C 17350
ERPIBADR  00001 1F3 000000 27504 16998 27518
ERPIBALT  00001     000040 17470
ERPIBCCW  00004 1F3 000000 27506
ERPIBCNT  00002 1F3 000006 27509
ERPIBCQP  00001 1F3 000010 27512 17254 17256 17257
ERPIBCR   00004 001 00C794 17126 16973
ERPIBCRA  00004 001 00C78C 17124 16994
ERPIBCSF  00001 1F3 000011 27513
ERPIBCSW  00008 1F3 000000 27505 17008 17020 17022 17107 17111 17140
ERPIBESW  00001 1F3 000015 27517 17141
ERPIBFIL  00001 001 00C7A6 17134
ERPIBFLG  00001 1F3 000014 27516 17007 17247 17289
ERPIBLUP  00004 001 00C712 17081 16993 17129
ERPIBMSG  00001 1F3 000012 27514
ERPIBN    00001 001 00CA74 17440
ERPIBPUB  00002 1F3 00000E 27511 17027 17029 17093 17143 17147
ERPIBQ    00004 001 00CA14 17427 17081 17350
ERPIBREQ  00001 1F3 000013 27515 17148 17248
ERPIBSNS  00001 1F3 000008 27510
ERPIBST1  00001 1F3 000004 27507
ERPIBST2  00001 1F3 000005 27508
ERPIBTST  00001 001 00C738 17092 17085 17087 17089 17112
ERPIBTS1  00002 001 00C756 17105 17097 17099
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

ERPIBTS2 00004 001 00C75C 17107 17095
ERPIBUPD 00004 001 00C764 17109 17106
ERPIBWIT 00001     000018 27518 17109
ERPIB2   00001 001 00CA2C 17431
ERPIB3   00001 001 00CA44 17434
ERPIB4   00001 001 00CA5C 17437
ERPID    00001 001 00C965 17353
ERPNORM  00001 001 00E60A 19921 19892
ERPNORMA 00001 001 00E634 19934 19928
ERPNORMB 00004 001 00E60A 19922
ERPNORMC 00002 001 00E616 19925 19923
ERPNORM1 00004 001 00E5EA 19911 19895
ERPNORM2 00001 001 00E69A 19972 19931 19933 19941 19948 19952 19956 19960 19968
ERPNORM3 00001 001 00E6C0 19984 19978
ERPNORM4 00001 001 00E6A6 19976 19914 19917 19920 19974
ERPPIK   00001 001 001752 02114
ERPPOW05 00004 001 00E696 19969 19965
ERPPTR   00001 001 0007A3 00441  3642
ERPSAVAR 00001 001 012110 23671  2116
ERPSVC   00001 001 00E57A 19862  1682  1685 19790
ERQ      00044 001 0103FC 23197  5042  5053
ERQCCB   00004 001 01040C 23206
ERQCCB1  00004 001 010280 23190 18987 18987 19945
ERQCHL   00008 001 010401 23200
ERQCSW   00008 001 0103FC 23198 23199 23200
ERQCSW1  00008 001 010270 23176 19832 19896 19926
ERQDEND  00001 001 010504 23224  6339 23225 23226
ERQDLST  00044 001 0104D8 23223  5045  5056
ERQDRCCB 00004 001 010514 23233
ERQDRCSW 00008 001 010504 23228
ERQDRES  00044 001 010504 23227  4749
ERQDRFLG 00001 001 01050E 23230
ERQDRMSG 00001 001 01050F 23231  5497  6288  6295  6322  6386
ERQDRPUB 00002 001 01050C 23229
ERQDRSEK 00004 001 010510 23232
ERQDRSNS 00024 001 010518 23234  6296  6333  6379  6381  6383
ERQDVC   00008 001 010400 23199
ERQD1    00044 001 010428 23212  4754  5494  6332  6337  6338  6338  6338 23225 23225 23226 23226 23654
ERQD1CCB 00004 001 010438 23218  6316  6316
ERQD1CSW 00008 001 010428 23213  6278
ERQD1FLG 00001 001 010432 23215  5068
ERQD1MSG 00001 001 010433 23216  6297  6300  6308  6314  6324  6334
ERQD1PUB 00002 001 010430 23214  6318
ERQD1SEK 00004 001 010434 23217
ERQD1SNS 00024 001 01043C 23219  6296
ERQEND   00001 001 010426 23208
ERQFLG   00001 001 010406 23202 19987
ERQFLG1  00001 001 01027A 23178  5060 19993
ERQLNG   00001     00002C 29142  4777  5050  5302  6424
ERQMSG   00001 001 010407 23203 23204
ERQMSG1  00001 001 01027B 23187 19973 23188
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SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

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ERQNAME  00024 001 010410 23209 23210
ERQNAME1 00024 001 010284 23192 19821 23193
ERQPUB   00002 001 010404 23201
ERQPUB1  00002 001 010278 23177 19837
ERQSEK   00004 001 010408 23205
ERQSEK1  00004 001 01027C 23189 19822 19903 19911
ERQSNS   00024 001 010410 23207 23209
ERQSNS1  00024 001 010284 23191 23192
ERQTFX   00024 001 010412 23210
ERQTFX1  00024 001 010286 23193 19894
ERQTYPE  00001 001 010407 23204
ERQTYPE1 00001 001 01027B 23188 19819 19891
ERQ1     00044 001 010270 23175  4762  5299 19985 19985 19986 19986
ERRGO    00001 001 000A5E 00710  0684  0687  0707 17574
ERRGO1   00001 001 000A7E 00719  0715
ERRGO2   00004 001 000A82 00721  0718
ERRGO3   00004 001 000AC6 00751  0732  0734
ERRINVP  00004 001 008F68 11926 11923
ERRLOG1  00001 001 004404 05838  5802  5816  5825  5831
ERRLOG2  00001 001 00440C 05841  5833  6179
ERRLOG3  00001 001 004410 05844
ERROR0   00004 001 0073EC 08836  8734  8736  8755
ERROR1   00004 001 0079A2 09518 10859 10862 10865 10868
ERROR2   00004 001 0079AA 09520  8193
ERROR3   00004 001 0079B6 09524  9066
ERROR4   00004 001 0079C2 09527  8580
ERROR5   00004 001 0079CA 09529  9816
ERROR6   00004 001 0079EC 09540  9042  9840
ERRQ     00044 1F0 000000 27547  4774  4774  5962  5963  5978  6121  6151  6275  6332  6337  6337  6339
ERRQCCB  00004 1F0 000010 27557  5114  6034  6092  6107  6119  6370
ERRQCSW  00008 1F0 000000 27548  3833  5113  5128  5292  5538  5582  5704  5722  5917  5922  5936  5938  5947  5968
                                 6010  6010  6024  6029  6033  6036  6038  6255 14784 14785
ERRQDFLG 00001 1F0 00000C 27552  4913  5783  6303  6422  6431  6432
ERRQFLG  00001 1F0 00000A 27550  4756  4763  4772  4775  4865  5057  5123  5131  5288  5300  5324  5684  6275  6420
ERRQMSG  00001 1F0 00000B 27551  3831  4892  5285  5287  5503  5667  5670  6222  6245 14776
ERRQPUB  00002 1F0 000008 27549  3832  5121  5206  5240  5290  5322  5501  6427
ERRQSEK  00004 1F0 00000C 27555  3834  5505  5536  5788  6433 14786
ERRQSFLG 00001 1F0 000010 27556  4835  4864  4885  4916  5030  5039  5117  5325  6279
ERRQSINV 00001     000080 27553  5783  6303  6431
ERRQSNHA 00001     000040 27554  4913  6422  6432
ERRQSNS  00024 1F0 000014 27558  3835  4866  4867  4868  4887  4888  4889  4891  4920  4925  4929  4950  4958  5341
                                 5524  5525  5527  5559  5561  5563  5565  5567  5571  5574  5576  5578  5580  5584
                                 5608  5633  5636  5679  5773  5800  5806  5808  5822  5824  5828  5832  5834  5836
                                 5857  5859  5861  5863  5865  5867  5869  5871  5878  5880  5882  5884  5886  5888
                                 5894  5896  5898  5901  5903  5905  5907  5909  5911  5913  5915  5957  5959  6178
                                 6252  6333 14779 14783
ERRQUE   00001 1F0 000000 27546  3830  4744  4821  5499 14775
ERRREL   00004 001 0079D2 09531  9129  9518  9525  9527  9529
ERRSET   00004 001 000AD4 00757 20075 20113 20201 20530
ERRSETA  00004 001 000AD8 00758  1268
ERRSETB  00004 001 000ADE 00760  0749
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

ERRSET1  00001 001 001872 02193 20088 20103 20112 20122 20128 20174
ERRSET2  00001 001 001873 02194
ERRTIN   00001     000080 28884  4048 18326 19244
ERR01    00001 001 0043E4 05826  5805  5823
ERR05    00001 001 0043D4 05821  5807  5809
ERR1A    00002 001 000A3A 00700 19929 23166
ERR1B    00004 001 000A3C 00701 17297
ERR1F    00002 001 0009E6 00663 16515
ERR10    00004 001 000A0A 00681 20514 20523 22614
ERR11    00002 001 0009D6 00655  9522
ERR12    00002 001 0009D8 00656  9526
ERR13    00002 001 0009DA 00657  9528
ERR14    00002 001 0009DC 00658  9530
ERR15    00002 001 0009DE 00659 10984
ERR16    00002 001 0009E0 00660 10979
ERR17    00001 001 0009E2 00661
ERR19    00002 001 000A38 00699  0374
ERR2A    00002 001 0009FC 00674
ERR2B    00002 001 0009FE 00675  7276
ERR2C    00002 001 000A00 00676 11929
ERR2D    00002 001 000A02 00677 12102
ERR2E    00002 001 000A04 00678 21941 21961 22019
ERR2F    00004 001 000A06 00679 12557
ERR20    00002 001 0009E8 00664 10837 10927 10932 21128 21130
ERR21    00002 001 0009EA 00665  0986  1279  1341  1375  1389  5360  9546 11200 12044 12129 14410 14428 14870 18038
                                 19010 19238 19610 19629 19756 20273 20339 20478 20482 20484 20492 20826 20845 20954
                                 21012 21014 21088 21191 21210 21364 21785 21920 21967 22197 22201 22471 22628 22630
                                 22631 22632 22636 22637 22644 22646 22648 22650 22654 22674 22683 22697
ERR22    00002 001 0009EC 00666  7345 14981
ERR23    00002 001 0009EE 00667
ERR24    00002 001 0009F0 00668  0375
ERR25    00002 001 0009F2 00669  1653  4989  9519 10883 18021 18024 19798 19801
ERR25C   00001 001 001326 01651  1601  1616  1620  7604  7607  7623
ERR26    00002 001 0009F4 00670 18092
ERR27    00002 001 0009F6 00671 18036 18052 18073 18078
ERR28    00002 001 0009F8 00672
ERR29    00002 001 0009FA 00673
ERR30    00002 001 000A22 00689 18457 18539
ERR31    00002 001 000A24 00690  4828  4956  4966  4987  6311
ERR32    00002 001 000A26 00691 18582 18591 18593 18595 18603 18613 18615 18617 18619 18623 18637 18641 18643 18645
                                 18648
ERR33    00002 001 000A28 00692 18553
ERR3330  00001 001 004398 05803  5547  5549  5551
ERR3340  00001 001 004390 05799  5541  5543  5545
ERR34    00002 001 000A2A 00693
ERR35    00002 001 000A2C 00694
ERR36    00002 001 000A2E 00695 10994
ERR37    00002 001 000A30 00696
ERR38    00002 001 000A32 00697 18428
ERR39    00004 001 000A34 00698
ESCHAN   00001     000040 29546
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
ESCPU    00001     000080 29545
ESCU     00001     000008 29549
ESOURCE  00001     0000B1 29544 17141
ESSCU    00001     000020 29547
ESSTU    00001     000010 29548
EUECBTAB 00001     000000 23243  0415
EUIND    00001     000040 29340
EUMODSW  00001     000010 29342
EUUNCK   00001     000008 29341
EVIRTMEM 00004 1DA 000404 28327 15179 15196 15358 15377 15656 15698 15708 15717 15721 15737
EVISTAB  00004 1DA 00040C 28329 15227 15237 15239 15241 15672 15739
EXCH     00004 001 009F08 13209 12866 13103 13202
EXCHA    00004 001 009E84 13187 13163
EXCHANGE 00004 001 009E28 13162 11593 12625 13176
EXCHA0   00001 001 009E64 13177 13171
EXCHA01  00001 001 009E74 13182 13168
EXCHB    00004 001 009E98 13192 13190
EXCHFLD  00256 001 00A006 13273 13251 13253
EXCHIND  00001     000001 29659 11759 11761 12851 13185
EXCHPGES 00004 001 0097F4 12625 12604
EXCHPRI  00004 001 00A83E 13918 13925
EXCHR    00006 001 008F78 11931 11858
EXCH1    00002 001 009FDA 13262 13235
EXCH2    00006 001 009FAA 13251 13256
EXCH3    00006 001 009FF0 13268 13271
EXCH4    00004 001 009FC8 13257 13272
EXCH5    00004 001 009FEC 13267 13265
EXCLC    00002 001 009600 12473 12468
EXCONT   00004 001 005FC4 06766  6650
EXCONT1  00001 001 005E24 06651  6767
EXCP10   00004 001 00D520 18307
EXCP10A  00004 001 00D582 18334 18332
EXCP10C  00004 001 00D534 18312 18310
EXCP2    00002 001 00D260 18046 18025 18031
EXCP2A   00001 001 00D2A0 18068 18063
EXCP25   00001 001 00D28C 18061 18050
EXCP3    00004 001 00D2C4 18078 18018
EXCP3A   00004 001 00D2C8 18079 18067
EXCP4    00004 001 00D202 18016 18075
EXCP5    00004 001 00D5A6 18351 18358
EXCP6    00004 001 00D5C2 18360 18352
EXCP8    00001 001 00D51C 18304 18286 18292 18296 18299
EXCP9    00004 001 00D20E 18020 18041
EXCSW    00001     0000B0 29532 16913 16946 17142
EXIGN2   00004 001 00491A 06259  5688  5774  5930  5935  5937  5939  5948  6040
EXIT     00001 001 000B80 00842  0402
EXITRTRN 00004 001 00F0B2 21279 20171 21229
EXITSAV  00006 001 00F068 21255 20204 21133
EXITSAV1 00001 001 00F0AC 21269 21266
EXITTOD  00004 001 00B38C 14644 14537 14628 14630
EXLOGB   00001 001 0002C0 17444 17139 17445
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
EXLOGL	00001		000060	17443	17110 17139 17445
EXLOG1	00001	001	000320	17445	17082
EXOLDP	00004	001	000018	00222	1009
EXOLDPSW	00001		000018	29301	1006
EXPAVD	00004	001	00A74C	13837	13716 13718 13720
EXPAVE	00004	001	00A750	13838	12712 12714 12716
EXTENTRY	00001		000030	29396	
EXTERN	00004	001	000D36	01016	1038
EXTIC	00001	001	004332	05751	5714 5748
EXTIC0	00006	001	004328	05749	5728
EXTINF	00002	001	000084	00249	1014
EXTINTC	00002	001	000086	00250	0251 3535 3537 3542 3544
EXTINTRC	00002	001	000087	00251	
EXTOC	00001	001	002D7A	03541	
EXTRA	00004	001	002DD0	03576	3573
EXTRAN1	00001	001	0048D0	06230	5504 5566 5577 5586 5597 5609 5611 5630 5632 5635 5637 5669 5671 5701
					5858 5864 5879 5890 5895 5902 5914 5919 5960
EXTRAN2	00004	001	0048E8	06243	6240
EXTRAN3	00004	001	0048F8	06247	6242
EXTRAN4	00001	001	00490E	06254	6249
EXTRETRN	00001	001	002DCC	03574	6851 14895 19640
EXTRNM1	00001		000001	29218	3653
EXTRTN	00001	001	002D68	03534	0379 0516 3533 6849 14894 19639
EXTRTN1	00001	001	002D7A	03540	3536
EXTTIM	00004	001	002D82	03544	3650 3655 3657
E3BOP	00001		000020	28960	5828 5865 5898 6379
E3CEDE	00001		00000C	28634	
E3COR	00001		000040	28978	5808 5836 5957
E3CTOP	00001		000010	29006	6139
E3CTRUNC	00001		000001	28986	6121
E3DCHN	00001		000080	29243	6015 6025
E3EOC	00001		000020	28973	5886 5911
E3EVD	00001		000010	28979	5832 5867 5915 6383
E3FP	00001		000004	28975	5584 5888 5913
E3INC	00001		000001	28976	5878 5913 5959
E3ITF	00001		000040	28972	5859 5907 6381
E3K1	00001		000001	28989	5839
E3K3	00001		000003	28990	5979
E3NRF	00001		000008	28974	5861 5903 6381
E3ORUN	00001		000004	28964	5633 5828 5880 5905
E3PERM	00001		000080	28971	5636 5894
E3RDCT	00001		000012	29007	4300 6463
E3SKIP	00001		000010	29248	5986
E3TKOF	00001		000040	28873	5929
FABIT	00001		000080	29613	16508
FASTCE	00004	001	003018	03837	3826 3829
FASTTR	00001		000008	28908	5143 8396 8889 9178 9189 9224 9231 9391 9845 10001 10440 10444
FASTTRNS	00004	001	007C7A	09989	10184
FASTTR0	00001	001	007C98	09997	9995
FASTTR1	00004	001	007CC2	10011	10027
FASTTR2	00004	001	007CD2	10015	10013

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
FASTTR3  00004 001 007CF2 10024 10019
FAST2501 00001     000080 28882 18446
FAVP     00001 001 00254A 02568  0322  3007  3079  3151  3223
FAVPT    00002 1DB 000042 28269
FCBQ     00008 001 01DD18 27108  0559  1442 27114 27181
FCHAN    00001     00001B 29288  0701
FCHCLR   00001 001 000B74 00828 19679
FCHCONT  00004 001 006130 06920  6915
FCHERR   00001     000008 28685
FCHEXIT  00001 001 000B4C 00816  0685  7340  7883
FCHEXT   00001 001 000B60 00822  7315  7416
FCHGATE  00001 001 000B79 00831  0826  6921 14026 19714 19852
FCHQ     00001     000002 29372  0751  0829  3874  3888  5665  6239  6904 16673 18700 19516 19660 19667 19747
FCHRET   00004 1EE 000058 27601  6926  7311  7339  7415  7882
FCHSW    00001 001 00097F 00624  6911  6918  7113  7182  7486  7490  7590  7647  7662  7774  7788  7898
FCHUPD   00001 001 006B20 07876  7582
FCHUPD1  00004 001 006B32 07882  7880
FCHWORK  00004 001 001620 02002  2026  6919
FCHWRK1  00073 001 001668 02034
FCHZ     00001 001 001348 01669
FCPU     00001     00001F 29292
FEBLEAP  00001     00001D 28522 14723
FEBNOLP  00001     00001C 28521 14720
FEBRUARY 00001 001 00157D 01915 14720 14723
FECHRPS  00001     000080 29444
FETCH    00001 001 0060E8 06897  0377  1393  6513  6548  6907 19867
FETCHEOJ 00001     000008 29283  0755  0757  1224  1260  1286  1313  6687  9126 14871 16226 19533 20070 20096 20125
                                20127 20181 20218 20495 20499
FETCHERP 00001 001 0060E8 06899 19868
FETCHID  00001     000007 29405 17278
FFMSG    00001     000080 24508
FFPF     00004 001 009D60 13077
FFPF1    00004 001 009D90 13088 13079 13085
FFPF2    00004 001 009D88 13086 13094
FFPF3    00004 001 009D9E 13092 13096
FFPF4    00006 001 009D64 13078 13083
FGASSGNS 00001     000003 29312
FGPCON   00003 001 0015B4 01930
FICL     00001 001 001CCA 02485  0325  3010  3082  3154  3226
FICLPT   00002 1DB 000048 28272
FILEPROT 00004 001 00427E 05699  5585  5889
FILLCHAR 00056 001 012E07 24339
FINCBQ   00004 001 01DD18 27116 27125 27273 27281
FINDEACT 00001 001 00ABC0 14254 14179 14228 14232 14248 14250
FINDMAIN 00004 001 00EC9E 20732 20734
FINDPUB  00006 001 0038B0 04523  4545
FINDPUB1 00004 001 0038E4 04542  4524
FINLOOP  00001 001 00AA96 14149 14128
FINSCAN  00001 001 00ABD0 14261 14256
FINVIRT  00004 1DC 00000C 28242 11900 27233
FIRST    00008 001 0122F2 23764
```

```
SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
FIRSTITM 00002 001 00156E 01909 14732
FIRSTLOG 00007 001 012388 23850
FIRSTPUB 00004 1E6 000000 27746  4409  4522
FIXADDR  00004 1FE 000030 27359  8763  8766  8806  8806  9837 10020 10022 10022
FIXAREA  00004 001 00726A 08729  8361  8598
FIXBND   00001     000077 29070 11689 12983 12994
FIXC1    00004 001 0080B4 10605  8753
FIXWTAB  00004 001 008748 11098 11105 11231 11234
FIX0     00001 001 0072B4 08748  8743
FIX1     00004 001 0072C4 08753  8810
FIX1A    00002 001 0072D0 08756  8750
FIX1B    00004 001 00730C 08773  8747
FIX2     00004 001 007390 08809  8733
FIX3     00004 001 007380 08805  8740  8745  8771
FIX3A    00006 001 007384 08806  8738  8839
FIX4     00004 001 007398 08811  8741  8768
FIX5     00002 001 0073C2 08822  8827  8830
FIX6     00004 001 0073C4 08823  8819
FIX7     00004 001 0073E4 08831  8824
FIX8     00006 001 00735E 08795  8776
FIX8A    00004 001 00737C 08804  8781
FIX9     00004 001 007340 08787  8783
FIX9A    00004 001 00734C 08790  8785
FLA      00001     000100 29629
FLAGS    00001 001 0123FA 23995
FLDEND   00001 001 00AC9A 14350 13989 14351
FLG1     00001 001 0123AB 23867
FLPTR    00001 001 00071C 00383  4159  8406 18103 18311 19123 19124
FNDENTRY 00001     000008 29358  7127  7137  7330  7355  7365
FNDLOOP  00001 001 00F380 21604 21354 21577
FOCL     00001 001 001F65 02550  0320  3005  3077  3149  3221 24746 25505 25705 25814 26027 26136
FOCLPT   00002 1DB 00003E 28267
FOURYEAR 00004 001 001560 01904 14708
FPBIT    00001     000010 29615
FPCONT   00004 001 0042E4 05731  5712
FPRSAVE  00001     000160 29630
FPR0     00001     000000 28444  0890  6693
FPR2     00001     000002 28445  0891  6694
FPR4     00001     000004 28446  0892  6695
FPR6     00001     000006 28447  0893  6696
FRAMEND  00001 001 012E56 24341 24027
FRAME3   00003 001 012D63 24332 24007
FRCBUF   00001 001 007A26 09564  9548
FREDEV1  00004 001 00376E 04417  4380  4408  4410
FREDEV2  00004 001 003776 04419  4444
FREECCB  00004 001 007F40 10407  9053  9446
FREECCB1 00004 001 007F52 10412 10406
FREECCB2 00004 001 007F5A 10415 10469
FREECCB3 00004 001 007F74 10422 10420
FREECCB4 00002 001 007F82 10426 10424
FREECCB5 00001 001 007FA2 10436 10434
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

FREECCB6 00004 001 007FBA 10444 10441
FREELOOP 00004 001 006A22 07801  7815
FREEREAL 00001 001 008A58 11449 11431
FREERUT  00001 001 008A18 11428 11421
FREESPSA 00004 001 0085C2 11030 11044
FREETKT  00001 001 006BBC 08120  8956 22073
FREETRT  00006 001 0074CC 08956  8941
FREEVIS  00001 001 00B9C2 15337 22663
FREEXI   00004 001 0074D2 08957  8946
FREE0    00002 001 007498 08936  8896  8901
FREE1    00002 001 0074A0 08939  8954
FRENT    00001     0000FE 17469
FRPFLOOP 00002 001 008A68 11454 11458
FRSTIRS  00008 001 011378 23489  0473  0474 18171 18172
FRSTSKA  00004 001 01232C 23806
FSA      00001     0000F8 29626
FSIGN    00001     00000F 28524 14603 14655 14737
FTCHIOER 00002 001 000B14 00785  6531  7273
FTCHNM   00001 001 010267 23163  4765  4767  5062  5064 18983 18985 19821 19831 19860
FTCHNOP1 00008 001 001790 02139  2140  7304  7306  7309  7350
FTCHNOP2 00008 001 001798 02140  7307  7310  7351
FTENTRY  00001 1D7 000000 28359  6518  7008  7095
FTPCIL   00003 1EE 000064 27607  6960  7100  7147  7169  7361
FTTAB    00004 001 014824 24628  0462
FULLBLOK 00004 001 00671C 07521  7518
FWEND    00001 1EE 000098 27645
FWSTART  00004 1EE 000054 27598
FXD      00001     000080 28944
FXREQD   00001     000002 28911  8882  8912 10002 10005
F0       00004 001 0086BC 11079 11160 11362 11684 11942 12319 12486 12532 12606 12955 13170 13732
F1COMREG 00008 001 002870 02983  2304
F1LUB    00002 001 001EB6 02520 26175 26200 26300 26325 26350 26375 26400
F1SLD    00002 001 014A36 24710 24671
F2COMREG 00008 001 002918 03055  2295
F2LUB    00002 001 001E24 02518 26170 26195 26220 26240 26255 26275 26295 26320 26345 26370 26395 26420 26440 26460
                               26480
F2SLD    00002 001 014A0C 24705 24663
F3COMREG 00008 001 0029C0 03127  2286
F3LUB    00002 001 001DC2 02516 26165 26190 26215 26235 26250 26270 26290 26315 26340 26365 26390 26415 26435 26455
                               26475
F3SLD    00002 001 0149E2 24700 24655
F4COMREG 00008 001 002A68 03199  2277
F4LUB    00002 001 001D42 02514 26160 26185 26210 26230 26245 26265 26285 26310 26335 26360 26385 26410 26430 26450
                               26470
F4SLD    00002 001 0149B8 24695 24647
GATENR   00001     000028 29042 10963 11008
GATEOP   00004 001 00C094 16136 16295
GATEWAIT 00004 001 001002 01304 12054 12390 15586 21351 21568 21784
GENADR   00004 001 00894A 11336 11514
GENENT   00001 001 000BAA 00869  0959  0974  1015 10836 10920 10931 10949 10951 11519 16094
GENPGQUE 00004 001 00C008 16085 16061
```

```
SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
GEN1      00004 001 000BD0 00881  0873
GETAB     00004 001 00F054 21240  3604 14861 14876 20167 20198 21200
GETADD    00004 001 00102E 01317  1314 22025
GETBLOCK  00002 001 00753A 09018  8227  8247  8380  8608  8693  8779  8820  8828  9055  9076  9135  9557 10276 10309
GETBL1    00001 001 007576 09038  9020
GETBL1A   00001 001 0075AE 09059  9064
GETBL1B   00001 001 007608 09087  9060
GETBL1C   00004 001 007610 09090  9094  9097
GETBL1X   00004 001 0075C2 09065  9092
GETBL1Y   00004 001 0075DA 09071  9069
GETBL1Z   00004 001 0075F4 09078  9072
GETBL10   00004 001 0075A6 09056  9049
GETBL11   00001 001 007586 09043  9040
GETBL2C   00002 001 007618 09093  9089
GETBL3    00001 001 007660 09117  9062  9101
GETCCW    00001 001 006F90 08435  8269  8286  8342
GETCCW0   00004 001 006FA2 08441
GETCCW0A  00006 001 006FAA 08443  8437  8456  8461
GETCCW1   00004 001 006FEC 08462  8449
GETCCW2   00004 001 006FF4 08464  8447
GETCCW3   00004 001 007008 08476  8466
GETCCW4   00004 001 007026 08484  8480  8482
GETCCW5   00004 001 006FCC 08453  8440
GETDADR   00004 001 001398 01698  4311  4317  4938  4943  5519  6001  6072 18589 18611 18639
GETD0     00004 001 0013D0 01715  1723
GETD1     00004 001 0013EE 01724  1720
GETD2     00002 001 0013FA 01729  1709
GETD3     00004 001 001418 01739  1707  1713  1726  1736 10874
GETERP    00002 001 00E578 19861 19828 19840 19842
GETIME    00001     000022 29333 17614
GETIRSBL  00004 001 00D33A 18134  6401
GETIRSRT  00004 001 00D3A6 18162 18150 18158
GETIRSSV  00004 001 00D3AC 18165 18135 18162
GETIRS05  00004 001 00D354 18141 18138
GETIRS07  00004 001 00D374 18149 18145
GETIRS10  00004 001 00D380 18152 18143 18148
GETIRS12  00004 001 00D388 18154 18140
GETNPADR  00004 001 00954C 12410 12241 12527 16079
GETNXTPG  00004 001 00BFF4 16077 16068 16087 16100
GETOC     00004 001 00F008 21189  6857 21171 21180
GETOUT    00004 001 00DB36 18830 18799 18801 18803 18810 18824
GETPADR   00004 001 00953A 12402 12239 12302 12425 16056
GETPC     00004 001 00EFA4 21118 10923 21099 21109
GETPFTE   00004 001 009680 12513 12507
GETPHASE  00002 001 0066B2 07475  7418
GETPIB    00002 001 00ECAC 20735 20741
GETPUB    00001 001 00D226 18027 18184 19012 19080
GETPUB2   00004 001 00D2F2 18094 18059
GETREAL   00001 001 0088A0 11274 12075
GETREAL2  00001 001 0088B2 11279 11232
GETRGTE   00001     000002 28686 11202 11209 11248 11432
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

GETRSW   00004 001 0088F0 11305 11296 11360
GETSAVE  00004 001 00E87A 20233 20170
GETSAV1  00004 001 00E86C 20230 20701
GETTCB   00001 001 0074D6 08969  8179  9496
GETTCB2  00006 001 0074E8 08974  8172
GETUTADD 00004 001 001014 01309  1298
GETUTAD1 00004 001 001018 01310  1287  1292 19174
GETVAR1  00001 001 00B78A 15074 15071
GETVIS   00001 001 00B824 15156 15065 22662
GETVISB  00001 001 00BA72 15431 15326 15396
GETVIS1  00001 001 00B880 15217 15190 15197 15199
GETVIS2  00001 001 00B882 15219 15216
GETVIS20 00004 001 00B896 15229 15247
GETVIS21 00004 001 00B8B2 15237 15232 15234 15271 15304
GETVIS22 00001 001 00B8DC 15248 15238
GETVIS23 00004 001 00B8F4 15258 15268 15281
GETVIS25 00004 001 00B926 15272 15256
GETVIS26 00002 001 00B92A 15274 15260
GETVIS27 00001 001 00B948 15282 15276
GETVIS28 00004 001 00B978 15300 15278 15293
GETVIS29 00002 001 00B97C 15301 15299
GETVIS3  00001 001 00B98A 15312 15266
GETVIS30 00004 001 00BAA0 15448 15453
GETVIS31 00004 001 00B9BE 15329 15324
GETVIS32 00004 001 00BAB2 15454 15450
GETVIS33 00004 001 00BACE 15464 15483
GETVIS34 00001 001 00BAD4 15466 15434
GETVIS35 00002 001 00BAF8 15479 15476
GETVIS36 00004 001 00BAFA 15480 15478
GETVS271 00004 001 00B968 15296 15236 15284
GETVS272 00004 001 00B93C 15279 15295
GIOADR   00004 001 00D5F4 18379  4425  4433
GIOADR1  00002 001 00D5EE 18377 18368 18372
GIOADR2  00004 001 00D632 18396 18390
GMT      00001     000001 28518 14627
GMTDATE  00009 001 001514 01890  0344  3029  3101  3173  3245 14600 14604
GNENTRY  00004 001 008DDE 11795 11785 11788 11790
GOAPPND  00004 001 002FE8 03823  3810
GOPTA    00001 001 00E58A 19870 19859
GPARMTRS 00002 001 00B7AC 15086 14984
GPFTBNDS 00004 001 009802 12632 11577
GPFTEBDS 00004 001 0097FE 12631 12284 12392 12580
GRBIT    00001     000008 29616
GREALID  00001     000001 29656 11333 12762 12829 12843 16511
GRETADR  00001 001 008860 11233 11326 11350
GRSAVE   00001     000180 29631 16483 16490
GTVINT9  00004 001 00BCD4 15722 15710 15718
GTVSBG   00001     00003D 29044 15568
GTVSF1   00001     000045 29060
GTVSF2   00001     000043 29056
GTVSF3   00001     000041 29052
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

GTVSF4   00001     00003F 29048
GTVSINIT 00001 001 00BB0A 15516 15000 15159 15339
GTVSINT1 00002 001 00BD12 15742 15603 15612 15675
GTVSINT2 00001 001 00BB4C 15546 15535
GTVSINT3 00001 001 00BB96 15593 15544 15583
GTVSINT4 00004 001 00BBB0 15607 15600
GTVSINT5 00002 001 00BC4E 15678 15605 15626
GTVSINT6 00004 001 00BC7A 15694 15690
GTVSINT7 00004 001 00BC88 15698 15692
GTVSINT8 00002 001 00BD04 15738 15730
GTVSIN12 00001 001 00BBF6 15641 15644
GTVSIN51 00006 001 00BC5E 15683 15685
G38BND   00001     000067 29064 20372 20571
G41BND   00001     000069 29063 21782
G58BND   00001     000071 29072 12052
G92BND   00001     00007F 29075 21349 21566
H        00001     000002 28583  1466  1483 14870 20105 22282
HALT     00004 001 00DE9C 19140 19137
HALTLOOP 00002 001 00DE36 19111 19119
HARDW$$A 00002 001 000B00 00773  7334
HARDWTFA 00002 001 000B0C 00781 10791
HARDWTFB 00002 001 000B0E 00782 10971
HARDWTF5 00002 001 000B02 00774 13066 13526
HARDWTF9 00002 001 000B0A 00780 13353 13355 13364 13366 13379 13381 13394 13396
HAVEIRS  00004 001 00D996 18675 18520
HC       00008 001 012358 23826 23823
HCCSW    00007 001 012378 23840
HCERR    00001     000002 23804
HCFLG    00001 001 012340 23810
HCINCL   00001     000001 23805
HCSNS    00002 001 01237F 23841  6252
HC1      00008 001 012360 23827 23828
HC2      00008 001 012368 23828
HC3      00008 001 012370 23829
HE       00001     00000A 28586 15278
HEAD     00002 001 004C03 06484  5732  5738  5743
HEAD09   00001     000009 29259  5743
HEAD11   00001     00000B 29261  5738
HEAD18   00001     000012 29258
HEAD19   00001     000013 29260  5732
HEAD30   00001     00001E 29262
HEX01    00001 001 0080A6 10593  8772
HEX1000  00004 001 000844 00505  0721  0907  9130  9561  9568 10790 10869 10944 10978 11062 11880 11926 12100 12148
                                 12556 12575 12679 12926 12970 12993 13065 13352 13363 13378 13393 13525 14199 14971
                                 15006 15021 15067 15118 15411 15585 16230 16675 17047 17060 18711 19991
HEX4000  00002 001 00877E 11110
HEX80    00001 001 0080A7 10594  8746
HEX800   00002 001 00957E 12427 12410 12412
HFEQUNO  00001     000004 23803
HFTOOPEN 00001     000008 23802
HHR      00001 001 0016D0 02050
```

```
SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
HIGHAD    00001     000080 29684 12156 27149
HIGHDVT   00001     0000E0 29437  6759
HIGHSTAD  00004 001 000670 00305
HIO       00001     000019 29328 19161
HIPHAS    00004 1DB 000024 28253  7624
HIPROG    00004 1DB 000028 28254
HIR       00012 001 00C9F0 17408
HIRACNT   00002 001 00C9F0 17409
HIRLCNT   00002 001 00C9F2 17410
HIRLTME   00004 001 00C9F8 17412
HIR1TME   00004 001 00C9F4 17411
HLDPSW    00001 001 000BFD 00895  0852  0920  0957  0972  1006  1036 10834 10916 10945 11007 11518 16093 16489
HOLDREG   00001     000009 28545
HPIKMT    00001     000050 29500  6699 14869 20065 20104 20178 20483 20564 20740 20782 20942
HQ        00004 001 009020 11989 12848 13321 13541 13595 16074
HQADR     00001 1F8 000000 27419  4193  4436  4549  5239 17090 17101 17104 19027 19028 19037 19050 19390
HQASY     00001 001 001F60 02538  1943
HQCHANN   00002 1F8 000000 27420
HQCHQPT   00001 1F8 000002 27421 19029
HQCRT     00001 001 001F24 02532  1942
HQCSFLG   00001 1F8 000006 27425  4555 19030
HQDEVTY   00001 1F8 000004 27423
HQDSK     00012 001 001F0C 02529  1935  2540
HQERP     00012 001 001F3C 02535  1944
HQERR     00001 1F8 000003 27422 19031
HQIPR     00001     000003 28672  4190  4198  4200  4201  4214  4417  4439  4546  4553  5246  6753 18365 19035 19038
                                 19045 19047 19051 19053 19070 19299
HQJCFLG   00001 1F8 000007 27426  4198  4200  4439  4553  5246 19035 19045 19047 19053 19068
HQLENGTH  00012     00000C 02540  2541  2542  4195  4435  4550 19040
HQLOG     00012 001 001EF4 02527 19020
HQNOP     00001 001 001F60 02539  1938  1939  1941  1945  1946  1947  2542
HQOPTN    00001 1F8 000005 27424
HQPIBFL   00002 1F8 00000A 27428
HQPMR     00012 001 001F30 02534  1937
HQPUBPTR  00002 1F8 000008 27427  4196  4212  4213  4437  4551  5244 17091 17102 19032 19041 19391
HQPUBTAB  00001 001 001EF4 02526  0487  2541
HQRAS     00001 001 001F18 02530  1936
HQSCAN    00004 001 0038F4 04546  3755  4543
HQSCAN1   00004 001 003900 04550  4552  4554
HQSNS     00012 001 001F00 02528  1934  2540  5350
HQSUP     00012 001 001F48 02536  1940
HQSVT     00012 001 001F54 02537  1948
HQTABE    00001 001 001F54 02542  1932
HQTABEND  00004 001 0015BC 01932  4206
HQTABS    00001 001 001EE8 02541  1931  1934  1935  1936  1937  1938  1939  1940  1941  1942  1943  1944  1945  1946
                                 1947  1948 19020
HQTRTAB   00001 001 0015BF 01933 19024
HQWANTED  00001     000001 28673 19053 19067 19068
HR        00001 001 0016D1 02051  7285
HR00      00001     000000 28135 28097
HTIME     00008 001 000838 00501  0905  3688 10989 27186
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
H04	00002	001	001592	01921	7870
H1	00002	001	0016DA	02055	4294 4316 7208 7212 7285 7312 7417 9454 14562 14592
H16	00002	001	0091C0	12115	12104
H192	00002	001	0080C4	10615	8814 8816
H2048	00002	001	0016DC	02056	1717 6083
H24	00002	001	001596	01923	18670 18671 18672 19800
H256	00002	001	01DF86	27297	27156 27159
H4	00002	001	00877C	11109	11848 16260
H450A	00002	001	01DF88	27298	27123
H544	00002	001	0080C0	10613	8823 8825
H6	00002	001	001594	01922	
H68	00002	001	0080C2	10614	8668
H8	00002	001	0008F2	00561	0662 3803 4296 4299 4304 4528 5136 5705 5723 5923 5969 7292 7695 7763 7799 16158 16192 19797
IABIT	00001		000001	29610	16441
IADCON	00004	001	006AD2	07852	7861
ICTA	00003	1E0	000191	28110	
ICWL	00004	1E0	00019C	28122	
ICXP	00004	1E0	00018C	28108	
IC90	00001	001	001280	01566	1555
IC91	00001	001	001281	01567	1569
IDAL	00001		000004	29249	1708 6066 6078 7693 7796 7802 8574 8583 8597 8619 8624 12023
IDALCNT	00004	1FE	000018	27355	8603 8614
IDALC1	00004	001	0080A8	10599	8591
IDALC2	00004	001	0080AC	10600	8626
IDALMVC	00006	001	0071C8	08651	8643
IDAL0	00004	001	0070DE	08577	8571 8573
IDAL1	00004	001	0070FE	08587	8584
IDAL2	00004	001	00710A	08591	8588
IDAL3	00004	001	007124	08602	8596
IDAL4	00002	001	00714C	08612	8607
IDAL5	00002	001	007192	08632	8629
IDAL6	00004	001	007194	08633	8636
IDAL7	00002	001	0071AA	08639	8620
IDAL8	00004	001	0071C2	08648	8638
IDOUT	00007	001	0015AA	01928	2178 18979 18991 18994 18994
IDRA	01024	001	005618	06617	
IDRABND	00001		00006F	29069	0960 6900 7893 15115 19713
IGNAPP	00004	001	00D1EA	18007	
IGNERR	00001		000010	28618	5123
IGNLUB	00004	001	00D1B6	17992	18093
IGNORE	00004	001	003104	03905	6247 6259 23165
IJB$$EOS	00001	001	021000	27309	27310
IJB$$STP	00001	001	021000	27308	27311
IJBCONSP	00001	001	00072C	00391	0393 1396 16911 18703
IJBDLAB	00004	001	0007FC	00469	
IJBEUECB	00004	001	000760	00415	
IJBLNSTB	00004	001	000784	00425	
IJBMFCER	00001	001	0007B8	00449	3982 3984
IJBOCFLG	00001	001	00072C	00393	
IJBOLTEP	00004	001	000764	00416	0417 1374 19085

```
SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
IJBPATCH 00004 001 0005E0 00282  0283
IJBSUP50 00001 001 000000 00193
IJBTIMER 00001 001 000748 00406 20639
IJBTOP   00004 1DB 000020 28318 15014 15550
IJBTRTMK 00004 001 0007B0 00446
IJLQTTAD 00004 1DB 000080 28297
IJSYSHC  00002 001 012348 23817
IL       00001     000040 28639  4476  6029
ILCMSK   00001     00003F 29394 21287
ILC2     00001     000002 29473  1321
IMDCMD   00004 001 003878 04504  4477  4491  4493  4495
IMDCMD2  00001 001 003898 04512  4509
INDIB    00001 001 00D988 18669 18664
INDPFXD  00002 001 0088D4 11294 11291
INDSVP   00004 001 008D46 11737 11734
INHALLSK 00001     000018 29037  5726  6174
INHSEEK  00001     000010 29035
INHWRITE 00001     000040 29036
INIT     00004 001 00BDA4 15860 15856
INITAB1  00004 001 01DF00 27250 27264
INITAB10 00004 001 01DDC0 27164 27155
INITAB11 00006 001 01DDD0 27168 27170
INITAB12 00004 001 01DED2 27238 27240
INITAB2  00002 001 01DE74 27214 27218
INITAB3  00001 001 01DE5C 27207 27200
INITAB4  00004 001 01DE50 27204 27206
INITAB5  00004 001 01DE36 27198 27209
INITAB6  00004 001 01DEB4 27230 27223
INITAB7  00004 001 01DEA8 27227 27229
INITAB8  00004 001 01DE8E 27221 27231
INITAB9  00004 001 01DE86 27219 27215
INITBUFR 00002 001 01DD1C 27117 27283
INITCNCL 00004 001 00E75C 20096 20066 20074 20510
INITCOMP 00004 001 01DDA0 27156 27161
INITDAT  00001 001 01DD48 27129  1442
INITERP  00001     000080 28682  4770  5067 19996
INITHQ   00004 001 003448 04180  0708  4171  4662
INITHQIO 00004 001 00379E 04434  4418
INITHQ1  00004 001 0037A2 04435  4438  4440
INITHQ5  00001 001 0037C6 04445  4442
INITLAST 00002 001 01DDBA 27162 27157
INITOK   00004 001 00B42E 14724 14722
INITPT   00001 001 01DE04 27184 27181
INITRAS  00001     000086 29083 16482 16503 16941
INITRG   00004 001 003690 04356  3761  3853  3875  3877  3879  3886  3926  3937  3939  3971  3973  3997  4130  4185
                                  4223  4225  4526  4871  6215  6304 17158 23164
INITRG1  00001 001 00370E 04390  4363  5371 17420 17541 18862 19687
INITRG2  00004 001 003742 04406  4402  4404
INITRG3  00002 001 003764 04414  4412
INITRG4  00004 001 003724 04398 18884
INITRG5  00001 001 0048BC 06214  5650  5656  5662  5664  5666  5764  6168  6170  6173  6175
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
INITSIO  00004 001 00377C 04421  4447 17275
INITSVC  00001 001 0085E6 11038  6836
INNBUMP  00004 001 00F3C0 21642 21634
INNLOOP  00004 001 00F3B8 21639 21632
INPBUFA  00002 001 0123F1 23984
INPOOL   00004 001 009322 12174 12170
INPRCT   00001     000001 24057
INPUTCH  00159 001 012BE9 24244 24017
INSBOT   00004 001 009B9A 12915 12849 13290 13298 13542 13596 16075
INSBUFA  00002 001 0123ED 23982
INSERT   00004 001 009340 12182 12179 12180
INSERT1  00004 001 00BE6A 15914 15931 15944
INSIZE   00001 1DB 00009F 28308  4292  4332
INSNR    00002 001 008EFC 11888 11883
INSTOP   00004 001 009B80 12906 12184 12893 13553 13634 13782 15915
INSWID   00004 001 0088A0 11275
INTDSKF  00001 001 00392D 04626  4911  5495  6418
INTECC10 00004 001 003ACE 04836  4831  4833
INTECRT  00001 001 003C44 04952  4855
INTEDASD 00004 001 003BA4 04903  4895
INTEDEQ  00004 001 003970 04658
INTEDEQ1 00004 001 003974 04659  4811
INTEEXIT 00001 001 00394E 04648  4837  4893  4906  4919  4921  4928  4931
INTEINIT 00004 001 00397C 04661  4886
INTEINI1 00004 001 003980 04662  4650  4652  4838  4968  4986
INTENOP  00004 001 00392E 04629  4501 18769 19144
INTEN2   00006 001 003A56 04790  4630
INTEPRT  00004 001 003BD6 04918  4904
INTEPRT1 00004 001 003BF0 04925  4923
INTEQFRI 00001 001 003CAE 05029  4656  4658  4661  4988
INTEQF05 00004 001 003CBE 05035  5031
INTEQF10 00004 001 003CD2 05042  5040
INTEQF20 00002 001 003CE6 05048  5044
INTEQF30 00004 001 003D00 05057  5047  5055
INTEQF40 00004 001 003D28 05068  5061  5063  5065
INTEQSET 00001 001 003D34 05111  4829  4859  4957  4967
INTEQSXT 00002 001 003DD4 05155  5125
INTEQS10 00004 001 003D5A 05121  5116  5119
INTEQS15 00001 001 003DA2 05140  5130  5135  5138
INTEQS20 00001 001 003DBC 05147  5133  5142  5144
INTEQS30 00004 001 003DD0 05154  5151
INTERRCC 00004 001 003936 04632  3857  3985  4044
INTERRC2 00001 001 003A9A 04820  4633  4807  4809
INTERRUC 00004 001 003946 04638  3855
INTERR10 00004 001 003C88 04980  4978
INTERR15 00004 001 003C98 04984  4981
INTERR31 00002 001 003C7A 04976  4858
INTERTRN 00004 001 003984 04663  4657  4660  6342  6344
INTEUC10 00001 001 003AF0 04853  4848  4963
INTEUC20 00004 001 003B18 04865  4861  4863
INTEUC30 00004 001 003B4A 04878  4872
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
INTEUC40 00004 001 003B56 04882  5301
INTGATDN 00004 001 003992 04682  4884  5033  6281
INTGATEX 00004 001 0039C6 04697  4691  4693
INTGATUP 00004 001 00398A 04680  4834  4869  4915  4983
INTGAT10 00002 001 003996 04683  4681
INTGSNS  00001 001 003B94 04897  4959
INTGUSER 00004 001 003C0C 04933  4899
INTIGN   00001     000020 04625  4012  4018 20015
INTIGNOF 00004 001 00324C 04018  4015
INTINFO  00004 1EC 000004 27671  0883  1321 19548 19549 21259 21263 21280 21285 27672
INTNOERR 00004 001 003964 04655  4901  4926  4930  4936  4948
INTOBR   00001 001 003A0A 04760  3827  4954  4964  5318  6291  6305  6328 14771
INTOBRWD 00001 001 0039CC 04741  4826  4856
INTOBR05 00004 001 0039F2 04754  4751
INTOBR10 00004 001 003A0E 04762  4746  4748
INTOBR20 00004 001 003A32 04771  4764  4766  4768
INTOBR30 00004 001 003A36 04772  4757  4759  4778
INTOBR32 00006 001 003A3E 04774  4753
INTOBR40 00004 001 003A4A 04777  4773
INTPROT  00004 001 003CA6 04988  4940  4945
INTPSNS  00001 001 003DD6 05160  4825  4850
INTRTN   00004 001 002EDA 03723  0216  0378  0971  1529  1787  3742  3816  4179  4431  6041 11060 12150 14086 14770
                           16916 16943 18305 18452 18474 18766 19099 19247 19682 20004 23648
INTSMOVE 00006 001 003C3E 04950  4947
INTSNSF  00001 001 00392C 04622  4012  4018  4984  5304  5316  5321  5327  5329 20015
INTSNSNO 00001 001 003BA4 04902
INTTPERR 00001 001 003C60 04961  4852
INTTRANS 00004 001 00393E 04635 18480
INTTRNS2 00004 001 003AA8 04826  4636  4823
INTUC2   00001 001 003ADA 04846  4639
INTVRQD  00001     000040 28957  5565  5822  5863  5898  6379
INUSE    00004 001 00DB22 18825 18818
INVADR   00004 001 009722 12564 12539 12541 12543
INVCODE  00001     0000F0 29024
INVERSE  00001 001 00ACC6 14367 14300
INVLI    00001     000008 28922 16117
INVLIST  00001     000010 17474
INVLST   00004 001 00BE20 15893 15832
INVP     00001     000004 29685 12083 12154 13638 15875 15896 15904 15933
INVPAGE  00004 001 00928C 12128  1436
INVPAGE1 00004 001 0092A4 12136 12067 12088 12113
INVPAR   00004 001 008F56 11921 11905 11909 11911
INVPG    00001     000020 28920 16099
IOAREA   00001 001 012451 24034 24078
IOBND    00001     000082 29081 20109 20256 20566 20789 21553 21740
IOBOND   00001     0000FE 29080 20317 22028
IOCMPL   00001     000001 29088  1225  3594  3935  4094  4111 16132 16291 17575 19558 19912 19983 20498 20593 20705
                           20775 20799 21459 21472 21643 22543
IOCOMP   00001 001 0064B0 07279  7271
IOELP    00001     0000AC 29530
IOERR    00001     00001A 29287
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
IOERRMSG 00001     000020 24510
IOIND    00001 001 00A7B0 13844 12819 12821 13808
IOINF    00002 001 0000B8 00263  0861
IONPSW   00004 001 000078 00246 16709 17634 17655
IOOLDPSW 00001     000038 29304  0852  1036
IOOPSW   00004 001 000038 00228  0855  3806  6723  6724  6783 10993
IOPSET   00004 001 00DEE0 19164 19135 19139
IOSBASE  00004 001 000884 00527  3758  3905  4009  4180  4356  4391  4663  4694  5163  6399 17266 18712 19435 22699
IOSBASE2 00004 001 000888 00528 19081 22700
IOSW     00001 001 009D01 13036 12751 12771 12805 12817 12823 13334 13336
IOTEND   00001 001 014A60 24713 26500
IPIK     00001 1E0 000190 28109 21452
IPLBIT   00001     000001 29380  6729 18959 19384
IPT81T   00001     000010 29412  4288  4332
IRSABLKS 00001 001 011600 23499  0473 18172
IRSADR   00001 1F5 000000 27453  4078  4143  5753  5944  6052  6098  6153 18156
IRSBLEN  00001     000048 27481  0473  0477  6104 18159 18171 18172
IRSBLND  00001 001 011768 23505  0476
IRSBLOCK 00004 1F5 000000 27454  6104 18159 18159 27458 27466 27481
IRSCHAIN 00001 1F5 000047 27480  4144  4151  6100 18160 18161
IRSCSWW  00001 1F5 000034 27474  4084  6053
IRSDBLKS 00071 001 011570 23497 18171
IRSDSKFP 00001 001 00D3B7 18171 18146 18147 18174 18527
IRSECCW4 00008 1F5 000028 27472  4081
IRSECFSK 00008 1F5 000000 27467  6156  6160 27475
IRSECRDH 00008 1F5 000010 27469 27469
IRSECSCH 00008 1F5 000018 27470  6164  6165 27471
IRSECSFM 00008 1F5 000008 27468  6161  6162  6174 27468
IRSECTIC 00008 1F5 000030 27473  5945
IRSECT1  00008 1F5 000020 27471  6166
IRSEDLEN 00001     000030 27465  5754
IRSEDRDH 00008 1F5 000020 27463 27463
IRSEDSCH 00008 1F5 000008 27460  5759  5760 27461
IRSEDSFM 00008 1F5 000018 27462  5762  5763 27462
IRSEDSK  00008 1F5 000000 27459  5754  5757 27465
IRSEDTIC 00008 1F5 000028 27464
IRSEDT1  00008 1F5 000010 27461  5761
IRSEFLEN 00001     000038 27475  6156
IRSFLPTR 00001 001 000804 00473  4145 18149 18151
IRSLEN   00002 001 00080C 00477  4076  4141  5942 18154 18679
IRSLSKAD 00007 1F5 00003F 27478  6157  6158  6163  6172 27470
IRSPSKAD 00007 1F5 000038 27477  5755  5756  5758  6158  6159  6171  6172 27459 27460 27467
IRSRESX  00002 001 00D3B8 18172  4146
IRSRSXTB 00001 001 00D3BA 18173  4149 18173
IRSSEEK  00008 1F5 000000 27455
IRSSFM1  00008 1F5 000008 27456 27456
IRSTIC1  00008 1F5 000010 27457
IRSTYPE  00001 1F5 000046 27479  4079  6054  6154
ISKMASK  00004 001 0016C4 02045  1613
ISTRASRT 00001     000080 29409
ITF370   00001 001 004510 05921  5860  5908
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
ITPTR    00002 1DB 000066 28287
ITREQ    00005 001 010188 23134  0408
ITROUT   00004 001 00EFBC 21131  3612  3686  6861
ITRQUP1  00006 001 002E60 03632  3625
ITRQUP2  00004 001 002E40 03624  3631
ITSOCDEV 00001 001 003082 03864  3861
ITTAB    00001 001 001B2C 02456  0337  3022  3094  3166  3238
JAENTRY  00006 001 000C28 00909  1020
JALOOP1  00004 001 000D56 01028  1033
JALOOP2  00004 001 000DDE 01075  1080
JAMAXVAL 00004 001 001630 02008
JAOHD    00004 001 000D6C 01034  0857  1011
JAOHID   00001     000000 28451  0910  0922  1034  1068  1296  6726 11645 18028
JAPART   00004 1DB 000074 28293
JATIMER  00002 001 000D7E 01045  0912  1021  1067
JAXIT    00006 001 000DB2 01064  1253  1662  6691
JAXITS   00006 001 000DB8 01065  6727  6826
JAXPP    00001 001 000DFC 01083  1069
JAXRET   00006 001 000DF4 01081
JCOPEN   00001     000040 29411 18574
JCSW1    00001 1DB 000038 28262 18574
JCSW2    00001 1DB 000039 28263  0751  7159 19663 19717 19742
JCSW3    00001 1DB 00003A 28264
JCSW4    00001 1DB 00003B 28265 14616 14637 19657 19705
JC59OFF  00001     0000FB 29481 19657
JC59ON   00001     000004 29480 19705 29481
JDUMP    00008 001 00187C 02196 19498
JIBPT    00002 1DB 000044 28270
JIBTAB   00001 001 00254B 02576  0323  3008  3080  3152  3224
JOBACC   00001 001 00DAB8 18794  4511
JOBACC2  00001 001 00DAF6 18811 18805 18807
JOBDATE  00008 1DB 000000 28246 14619 14620 14621
JOBDUN   00001     000020 29091  4338 18456 18538
JOBZNCOR 00004 001 00B334 14612
JOBZON   00001 1DB 00005E 28282 14608 14613
KCOMLNG  00001 001 0123B4 23882
KDD      00003 1F1 000007 27537
KEY0     00001     0000F0 29397  1340  1388  9545 12043 12128 19755 20272 20967
KLLEDBIT 00001     000002 29382  1537 12774 12782 13975 14253 14333
KLLRSTBT 00001     000004 29383  0712  1536  1552  6743  6777 12772 12774 20064 22033
L        00001     000004 28581 15268 16194 17916 19091
LABLEN   00002 1DB 00002C 28255
LACPTE   00002 001 009CF6 13030 12758 12787 12842 13658
LAM      00004     000024 22706 22662 22663 22666
LAP      00004     000014 22703 22606 22607 22616 22617 22618 22619 22620 22621 22622 22629 22638 22639 22640 22641
                                 22658 22679 22680 22681 22682 22695 22696
LAPGQU   00004 001 008D90 11774 11760
LAPIB    00004 001 000BDC 00884  0885
LASTBFR  00006 001 01DD3E 27127 27124
LASTIN   00002 001 012D0C 24320 24004
LASTLOG  00007 001 01238F 23851
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

LASTSKA  00004 001 012330 23807
LATESTAD 00004 001 000674 00306
LBREG    00004 001 008A64 11453 11427 11447
LCBYTE   00001 001 000689 00316  0829  3874  3888  5665  6239  6904 16673 18700 19516 19660 19667 19708
LCPT     00002 001 009CFA 13032 13078 13278 13304 13316 13319 13322
LCVRT    00004     000028 22707 22676
LDCHADD  00001 001 00DB40 18834 18793
LDPSIZE  00001     00000B 28559 15634 15658
LDRADDR  00004 001 0088F4 11307
LDR2R3   00004 001 008BE2 11607 11595
LDUREGS  00004 001 009862 12667 12660
LDVBYTB  00001     00000A 28562 15205 15316 15367 15370 15387 15392 15623 15669 15714 15723 15733
LDVBYTBI 00001     000007 28565 15319 15362 15365 15370 15383 15384 15392 15536
LDVBYTSV 00001     000009 28572 15536
LDWRKRG  00004 001 008BE6 11608 11544 11584
LDXXSLOT 00001 001 00C920 17333
LD00SLOT 00004 001 00C8E0 17317 16463 16463 16465 16535 16676 16694 17126
LD01SLOT 00004 001 00C8E4 17318
LD02SLOT 00004 001 00C8E8 17319
LD03SLOT 00004 001 00C8EC 17320
LD04SLOT 00004 001 00C8F0 17321
LD05SLOT 00004 001 00C8F4 17322
LD06SLOT 00004 001 00C8F8 17323
LD07SLOT 00004 001 00C8FC 17324
LD08SLOT 00004 001 00C900 17325
LD09SLOT 00004 001 00C904 17326
LD10SLOT 00004 001 00C908 17327 17149
LD11SLOT 00004 001 00C90C 17328
LD12SLOT 00004 001 00C910 17329
LD13SLOT 00004 001 00C914 17330
LD14SLOT 00004 001 00C918 17331
LD15SLOT 00004 001 00C91C 17332
LE       00001     00000C 28587 15228 15238
LEAP     00001     000003 28523 14721
LEAPYEAR 00001     00016E 28519 14711
LENGNEG  00001     000010 28921 16102
LENGTH   00008 001 0122F6 23766
LENQADR  00004 001 008946 11335 12511
LERP     00004     000010 22702 22605
LFLD     00001     000010 14351 13914 13917 13927 13935 13977 14098 14150 14308 14310 14352 14381 14383
LFLDP    00001     000005 14387 14300
LFLDX    00001     00000F 14352 13914 14308
LFRAME   00002 001 01244C 24027
LGBIT    00001     000002 29618
LIK      00002 001 000750 00410  0762  1218  1278  3609 19528 19632
LINEAL1  00002 001 01239E 23854
LINEAL8  00002 001 0123A0 23855
LINECNT  00002 001 0123A6 23858
LINECNT1 00002 001 0123A8 23859
LINELN   00002 001 01243E 24020
LINEPA1  00002 001 0123A2 23856
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
LINEPA8   00002 001 0123A4 23857
LINEPTR   00004 1FE 00000C 27352  8297  8302  8347  8350  9904  9904  9904
LINE2     00001     0000DF 28501
LINE3     00001     0000EF 28502
LINE4     00001     0000F7 28503
LINE5     00001     0000FB 28504
LINE6     00001     0000FD 28505
LINE7     00001     0000FE 28506
LINKDIR   00006 1D7 00000E 28368  7151
LINKFLAG  00001 001 00C9EC 17394 16651 17514 17517 17519 17521 17523 17527 17529 17531 17533 17539 17545 17559 17564
                                 17599 17604 17613 17622 17679 17689 17691
LINKREG   00001     000002 28538 14955 14987 15000 15013 15018 15159 15326 15339 15396 15465 15743
LIOAREA   00002 001 012442 24022
LIOCSCOM  00001 1DB 000058 28279  0748  1203  1203
LIOS      00004     000004 22699 22600 22615 22625 22627 22677
LIOS2     00004     000008 22700 22603
LISTDIB   00004 001 00D990 18672 18658
LISTEL    00001     000022 29365  7061  7066  7133
LISTEND   00001     000000 29427 20305
LISTFLAG  00001 1EE 000060 27605  6977  6981  6994  7011  7111  7127  7137  7330  7355  7365  7484  7581  7587
LISTMSK   00001     000002 29366  7068
LL        00001 1F1 000012 27540  4260
LLBNDBG   00001     000059 29046 11048 11669 12672 14089 14330
LLBNDF1   00001     000061 29062
LLBNDF2   00001     00005F 29058
LLBNDF3   00001     00005D 29054
LLBNDF4   00001     00005B 29050
LLDEFIX   00001     000080 28951 13730 13746
LMSGAR    00002 001 012444 24023
LMSGIAR   00002 001 012446 24024
LNE1      00001 001 012542 24138 24012
LNE10     00001 001 01281B 24183
LNE11     00001 001 01286C 24188
LNE12     00001 001 0128BD 24193
LNE13     00001 001 01290E 24198
LNE14     00001 001 01295F 24203
LNE15     00001 001 0129B0 24208
LNE16     00001 001 012A01 24213
LNE17     00001 001 012A52 24218
LNE18     00001 001 012AA3 24223
LNE19     00001 001 012AF4 24228
LNE2      00001 001 012593 24143 24013
LNE20     00001 001 012B45 24233 24014
LNE21     00001 001 012B96 24238 24015
LNE22     00001 001 012BE7 24242
LNE3      00001 001 0125E4 24148
LNE4      00001 001 012635 24153
LNE5      00001 001 012686 24158
LNE6      00001 001 0126D7 24163
LNE7      00001 001 012728 24168
LNE8      00001 001 012779 24173
```

```
SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
LNE9      00001 001 0127CA 24178
LNUM      00002 001 012440 24021
LOADPNT   00001     000008 28530 15027 15103
LOADRA1   00004 001 0096E4 12544
LOADRA2   00004 001 009668 12506 12343 12481
LOAD00    00001     000000 17462
LOCATE    00004 001 0071CE 08667  8318  8326
LOCATE1   00004 001 0071DE 08671  8283
LOCC1     00004 001 0080B8 10609  8669  8711
LOCC2     00004 001 0080BC 10610  8672
LOCTODTU  00004 001 001550 01900 14607 14615 14629
LOC1      00004 001 0071E6 08673  8670  8681
LOC2      00002 001 007200 08682  8678
LOC3      00004 001 007204 08684  8675
LOC4      00002 001 00720E 08687  8704  8709  8716
LOC5      00002 001 007216 08692  8686
LOC6      00002 001 007254 08710  8700
LOC7      00004 001 007262 08715  8713
LOGCCW    00008 001 001850 02178 18997
LOGPEND   00001     000004 17498 16897
LOGPRC    00001 001 00DC5A 18958 18463
LOGPRC1   00001 001 00DCC4 18990 18971 18984 18986
LOGPRC1A  00004 001 00DC8E 18975 18988
LOGPRC1B  00006 001 00DCCA 18992 18980
LOGPRC10  00004 001 00DC7E 18970 18966
LOGPRC2A  00004 001 00DCA6 18981 18973
LOGTIC    00008 001 001858 02179  2180 18996
LONGSEEK  00004 001 00D838 18554 18551
LOOKFPF   00004 001 009580 12431 12492 12545 12550 12552
LOOPCHK1  00004 001 006866 07651  7663  7692
LOOPCHK2  00002 001 006B1A 07874  7824  7827
LOOPDAYS  00002 001 00B404 14712 14717
LOOPMONT  00004 001 00B432 14725 14730
LOOPTOD   00002 001 00B29C 14553 14558
LOW       00001     000001 29521 19106
LOWCORE   00001     000000 17464 16533 16534 16543
LOWDVT    00001     0000B0 29436  6757
LOWFXPTR  00002 001 0008C6 00545  9232  9235  9399  9402  9657  9662  9711  9717  9994  9996 10433 10435 10515 10518
                              11362 12319 12486 12606 13170 13732
LPGM      00004     00000C 22701 22601 22602 22604 22608 22609 22611 22612 22613 22623 22652
LPMGR     00004     000020 22705 22655 22656 22659 22668 22669 22675
LPOPT     00004     00002C 22708 22684 22685 22686
LREADALL  00002 001 01244A 24026
LRM       00004     00001C 22704 22642 22643 22664 22665
LRTAB     00004 001 00A718 13827 13681 13724
LSAVE     00001     000008 29476 29478
LSCRWOW   00002 001 012448 24025
LSFATRB   00001 001 012D12 24329
LSVCX     00004     000030 22709 22610 22624
LSVCX2    00004     000034 22710 22635 22645 22653
LSVC95    00004     000038 22711 22694
```

```
SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
LTA       00001 001 005088 06501  0380  6606 23299
LTABND    00001     000081 29079  1178  1186  1290  3899 20594
LTACNC    00001     000080 29279  1162 20211
LTACT     00001 1DB 000035 28259
LTAFCH    00001     000002 29219  3896  3902
LTAID     00001     000000 17488
LTAPROC   00004 001 000BE0 00887
LTAPSW    00004 001 0105A8 23298
LTAREA2   00004 001 000870 00513  1605  7405 19519 20231
LTASAVE   00001 001 0105A0 23297  0513  2326
LTAWB     00001     000003 29428
LTHIDQ    00002 001 000720 00385 20512 23129
LTK       00002 1DB 00006E 28291
LTKEY     00002 001 0006BE 00341  0760 11712 13905 13907 19527 19631
LTMISSUD  00001     000080 24519
LTMSG     00001     000040 24509
LUBDSP    00001 1F6 000006 27446  4238  4285  4320  4335 18442 18462 18536 18544 18548 18597 18657 18660 18800
LUBDSPI   00004 001 0016E6 29672 18055 18079
LUBIGN    00002 001 001590 01919  1920 18091
LUBLNG    00001     000002 24722 26155 26160 26165 26170 26175 26180 26185 26190 26195 26200 26205 26210 26215 26220
                                 26225 26230 26235 26240 26245 26250 26255 26260 26265 26270 26275 26280 26285 26290
                                 26295 26300 26305 26310 26315 26320 26325 26330 26335 26340 26345 26350 26355 26360
                                 26365 26370 26375 26380 26385 26390 26395 26400 26405 26410 26415 26420 26425 26430
                                 26435 26440 26445 26450 26455 26460 26465 26470 26475 26480
LUBNO     00001     00000E 29482 18017
LUBPT     00002 1DB 00004C 28274
LUBTAB    00002 001 001CD6 02511  0327  3012  3084  3156  3228 26155 26180 26205 26225 26260 26280 26405
LXECB     00004     000018 22712 22691 22692 22693
L0        00001     000000 29107  2200 19808
L1        00001     000001 29108  0952  1278  2128  2140  2144  2156  2173  2174  2176  3609  4254  4258  4260  4275
                                 4407  4523  4958  5512  5524  5525  5994  6003  6047  6454  6457  6466  6476  6602
                                 6672  6706  6820  7073  7376  8187  8189  8651  8956  9113 10285 10333 10334 10813
                                11024 11035 11278 11555 11585 11648 11651 11660 11704 11712 11810 12313 12533 12621
                                12622 13917 13927 13935 13946 13977 14098 14150 14272 14273 14274 14442 14459 14493
                                14514 14756 14808 14843 14879 16016 16048 16052 16131 16215 16221 16685 16686 16687
                                16963 16965 16966 17143 17148 17248 18159 18160 18252 18689 19122 19123 19209 19210
                                19527 19528 19529 19666 19826 19832 19835 20112 20128 20202 20210 20282 20447 20449
                                20473 20513 20620 20635 20733 20933 20966 20969 21050 21087 21160 21190 21262 21268
                                21288 21289 21452 21454 21911 27456 27462 27468
L10       00001     00000A 29117  7372  7706 15062 15094
L11       00001     00000B 29118  7679  7696  7698  7811 12027
L112      00001     000070 29137 20413
L12       00001     00000C 29119 14544 21387
L14       00001     00000E 29120
L16       00001     000010 29121  6567  6569  7211  7213  7656  7771  8236  8987  9244 10282 19734 20400
L2        00001     000002 29109  0916  1085  1203  1547  1589  1678  3835  3949  3974  3998  4046  4232  4790  4866
                                 4867  4868  4887  4888  4889  5162  5745  5747  5963  5975  6010  6197  6956  7285
                                 7593 10138 11560 11684 12145 12273 12621 13744 14143 14163 14211 14608 14619 14620
                                14621 16466 16467 16669 16683 16968 17027 17151 17295 18335 18478 18979 18991 18994
                                19104 19243 19821 19831 19860 21263 21280 21390 21412 21417 21436 22031 27168 27258
                                27293
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
L20       00001     000014 29122
L220      00001     0000DC 29138 19985
L24       00001     000018 29123  0897  7856 11022 11510 19735 21911
L256      00001     000100 29139 13252 13253 16149 27158
L28       00001     00001C 29125 21257 21291
L29       00001     00001D 29126
L3        00001     000003 29110  0802  0818  1415  1605  3942  4045  4463  5936  5938  5962  7108  7333  7856  8214
                                  8309  8549  8622  8749  8950  9095 12532 14088 14413 14604 15046 16446 17141 18094
                                 18314 18355 19109 19116 19192 19222 19544 19599 20209 20231 20419 20653
L30       00001     00001E 29127
L32       00001     000020 29128  7408
L36       00001     000024 29129 21256 21292
L4        00001     000004 29111  1703  2139  3557  5146  5505  5536  6172  6470  6473  6601  7899  8451  8996  9151
                                  9216 10275 11160 11371 11601 11664 11692 11735 11767 11931 11932 11933 12057 12327
                                 12494 12614 13179 13908 13954 13986 14100 14111 14132 14156 14785 18592 18636 18642
                                 18646 18647 18987 19598 19617 20379 20391 20451 20547 27127 27277 27460
L44       00001     00002C 29130
L5        00001     000005 29112  2129  2145  2154  2169  6151  6455  6456  6463  6469  6477  7226  7227  7263  7269
                                  7286  7781  7841 14478 18596 18602 20390 21260 27463 27469 27470 27472
L6        00001     000006 29113  2127  2138  6453  6468  6472  6514  6599  9170 11197 11199 12532 13221 13222 13223
                                 16691 27455 27459 27467
L64       00001     000040 29131
L68       00001     000044 29132
L7        00001     000007 29114  2009  3760  6543  6980  7326 10136 14444 18581 18614 21056
L71       00001     000047 29133
L72       00001     000048 29134
L8        00001     000008 29115  0896  1049  1051  1417  2141  2146  3558  3563  3618  3833  5292  5976  6600  6718
                                  7133  7247  7748  7749  8196  8976 10146 10301 11034 11942 14441 14850 17026 17140
                                 18618 19028 19495 19498 20168 20515 20622 20627 20634 21255 21575 27185 27278
L80       00001     000050 29135 15542
L88       00001     000058 29136  7408
L9        00001     000009 29116
M         00001     000004 28582  1493
MACHEK    00002 001 00C278 16419  0245
MAINTASK  00004 001 00EC9A 20731 20093 20120 20697
MAINTSK   00001 001 005EF6 06708  6700
MAKENEG   00001     000080 29493 20371
MAKEPOS   00001     00007F 29492 20417
MASK      00004 001 009CE0 13023 11903 12420 12421 12753 12854 13573 13612 15888 16063
MASKCON   00004 001 00164C 02014  7857
MASKTFXC  00004 001 009CEC 13026 12447
MASK1     00004 001 009CE4 13024 11807 11949 12835 13008 14130 16045
MASK2     00002 001 009CFC 13033 12813 13618
MASK81    00001 001 0035B3 04289  4284  4288
MAXBL     00001     000048 29648  9278  9381
MAXDATA   00001     000100 28575 15642 15643 15679 15683 15684
MAXREC    00001 1F1 000013 27541  4254  4275
MAXVAL    00004 001 001628 02006  1047  3555 14429 14431 14434
MAXVISTB  00001     0003E1 28568 15624 15725
MAX2      00002 001 0043D2 05819  5815
MCACT     00001     000040 17471 16465
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
MCBIT    00001     000004 29402  6702 11005 11033 11517 16091 20970
MCELL    00001     0000EE 29623
MCEXIT   00001     000004 17453
MCFLAGS  00001 001 00081A 00483 16457 16513
MCHARD   00001     000004 17452 16457 16513
MCIC     00001     0000E8 29585 16431 16437 16439
MCICODE  00008 001 0000E8 00267
MCLPSW   00004 001 00C314 16483 16469 16475
MCMODE   00001 001 00CA0E 17422
MCNPSW   00004 001 000070 00244 16542 16545
MCOLDP   00004 001 000030 00227 16449 16451 16472 16484
MCOLDPSW 00001     000030 29518 16446 16489
MCPDCOND 00001 001 00C2AA 16445 16438
MCPIK    00002 001 00C958 17348 16466
MCSCHDL  00001 001 00C2CC 16462 16550
MCSOFT   00001 001 00C2C8 16459 16442
MCSTRT   00001 001 00C27A 16426  0486  3768  4183  4464  6802 19150
MCTASK   00001 001 00C31C 16486 16473
MCTASK1  00001 001 00C33C 16495 16488
MCTIK    00002 001 00C95A 17349 16467
MCTSKDMG 00004 001 00C36C 16513 16507
MDIGIT   00002 001 01244E 24028
MICRINT  00001     00003F 29227
MICRRET  00001     00001C 29329
MICRWT   00001     00002F 29335
MIDNIGHT 00008 001 001520 01893 14546 14626 14696
MINREALP 00004 1DC 000004 28239 27172
MINTIME  00004 001 00A7BC 13857 12703 13744
MINTU    00004 001 001554 01901 14677
MINVAL   00004 001 00162C 02007
MISSMARK 00001     000002 28965  5574  5679
MLCA2    00001     000000 28845
MMDD     00004 1DB 00004F 28277
MODE1052 00001 001 0030D2 03887  3866
MODREG   00001     00000B 28569 15205 15231 15231 15262 15262 15283 15283 15316 15319 15362 15365 15367 15380 15380
                                15383 15384 15387 15518 15518 15536 15599 15599 15623 15634 15638 15658 15669 15680
                                15680 15689 15689 15700 15700 15709 15709 15714 15723 15726 15726 15733
MONCADR  00004 001 00009C 00261
MONTHEXT 00004 001 00B446 14731 14727
MONTHTAB 00001 001 00157B 01914  1915 14725
MOVECCB  00001 001 00861E 11056  6847
MOVECCB0 00004 001 007968 09500  9510
MOVECCB1 00004 001 00796C 09501  9508
MOVECCB2 00006 001 007974 09503
MOVECCB3 00004 001 007986 09507  9504
MOVECCB4 00004 001 00798E 09509  9506
MOVECCB5 00002 001 007996 09511  9502
MOVECCW  00006 001 006878 07656  7648  7650
MOVELOOP 00004 001 00C0A8 16147 16152
MOVEREST 00002 001 00C0C2 16153 16148
MOVERST  00006 001 00C0DE 16162 16156
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
MOVESA	00004	001	009174	12095	12092
MPGEPOOL	00004	1DC	000006	28240	7107 11212 11244 11445 11446
MPRT1	00001		000000	28828	
MPXCHB	00001	001	00DBD4	18908	18767
MPXCHB1	00004	001	00DBF2	18918	18930
MPXCHB2	00004	001	00DC00	18922	18935
MPXCHB4	00004	001	00DC14	18927	18923
MPXCHB6	00006	001	00DC1A	18929	18917
MPXCHN	00001		000010	28652	4362 4483 4692 18396 18865 18891 18912
MPXRSCNT	00002	001	00DC36	18937	18383 18931 18933
MPXRSNUM	00001		000014	18938	18383
MPXRST	00004	001	00DB86	18875	18868
MPXRST1	00004	001	00DB8C	18877	18926
MPXRST10	00004	001	0036B8	04367	4365
MPXRST2	00004	001	0036EC	04381	4371 4374 4376 4378
MPXRST3	00004	001	00DB98	18880	18878
MPXRST4	00001	001	0036CC	04372	4368
MPXRST5	00002	001	00DBAE	18885	18881
MPXRST6	00004	001	0036F8	04384	4382
MPXRST7	00004	001	00DB7E	18873	18871
MPXRTCNT	00002	001	00DC3A	18940	18382 18929
MPXWKCNT	00002	001	00DC38	18939	18382 18918 18920 18929
MRD00C	00001		0000F8	24755	24758
MRD00D	00001		0000F8	24807	24810
MRD00E	00001		0000F8	24859	24862
MRD00F	00001		0000F8	24872	24875
MRD01C	00001		0000F8	24768	24771
MRD01D	00001		0000F8	24820	24823
MRD01E	00001		0000F8	24885	24888
MRD01F	00001		0000F8	24976	24979
MRD02C	00001		0000F8	24781	24784
MRD02D	00001		0000F8	24833	24836
MRD02E	00001		0000F8	24898	24901
MRD03C	00001		0000F8	24794	24797
MRD03D	00001		0000F8	24846	24849
MRD03E	00001		0000F8	24911	24914
MRD030	00001		0000F8	24989	24992
MRD031	00001		0000F8	25002	25005
MRD032	00001		0000F8	25015	25018
MRD033	00001		0000F8	25028	25031
MRD04E	00001		0000F8	24924	24927
MRD05E	00001		0000F8	24937	24940
MRD06E	00001		0000F8	24950	24953
MRD07E	00001		0000F8	24963	24966
MRD070	00001		0000F8	25041	25044
MRD071	00001		0000F8	25054	25057
MRD072	00001		0000F8	25067	25070
MRD073	00001		0000F8	25080	25083
MRD08A	00001		0000F8	25223	25226
MRD08B	00001		0000F8	25236	25239
MRD08C	00001		0000F8	25249	25252

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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
MRD08D	00001		0000F8	25262	25265
MRD08E	00001		0000F8	25275	25278
MRD08F	00001		0000F8	25288	25291
MRD080	00001		0000F8	25093	25096
MRD081	00001		0000F8	25106	25109
MRD082	00001		0000F8	25119	25122
MRD083	00001		0000F8	25132	25135
MRD084	00001		0000F8	25145	25148
MRD085	00001		0000F8	25158	25161
MRD086	00001		0000F8	25171	25174
MRD087	00001		0000F8	25184	25187
MRD088	00001		0000F8	25197	25200
MRD089	00001		0000F8	25210	25213
MRD09A	00001		0000F8	25431	25434
MRD09B	00001		0000F8	25444	25447
MRD09C	00001		0000F8	25457	25460
MRD09D	00001		0000F8	25470	25473
MRD09E	00001		0000F8	25483	25486
MRD09F	00001		0000F8	25496	25499
MRD090	00001		0000F8	25301	25304
MRD091	00001		0000F8	25314	25317
MRD092	00001		0000F8	25327	25330
MRD093	00001		0000F8	25340	25343
MRD094	00001		0000F8	25353	25356
MRD095	00001		0000F8	25366	25369
MRD096	00001		0000F8	25379	25382
MRD097	00001		0000F8	25392	25395
MRD098	00001		0000F8	25405	25408
MRD099	00001		0000F8	25418	25421
MRD130	00001		0000F8	25514	25517
MRD131	00001		0000F8	25527	25530
MRD132	00001		0000F8	25540	25543
MRD133	00001		0000F8	25553	25556
MRD134	00001		0000F8	25566	25569
MRD135	00001		0000F8	25579	25582
MRD136	00001		0000F8	25592	25595
MRD160	00001		0000F8	25605	25608
MRD161	00001		0000F8	25618	25621
MRD162	00001		0000F8	25631	25634
MRD163	00001		0000F8	25644	25647
MRD164	00001		0000F8	25657	25660
MRD165	00001		0000F8	25670	25673
MRD166	00001		0000F8	25683	25686
MRD167	00001		0000F8	25696	25699
MRD280	00001		0000C0	25714	25715 25717
MRD281	00001		0000C0	25727	25728 25730
MRD282	00001		0000C0	25740	25741 25743
MRD283	00001		0000C0	25753	25754 25756
MRD284	00001		0000C0	25766	25767 25769
MRD285	00001		0000C0	25779	25780 25782
MRD286	00001		0000C0	25792	25793 25795

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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
MRD287	00001		0000C0	25805	25806 25808
MRD350	00001		0000F8	25823	25826
MRD351	00001		0000F8	25836	25839
MRD352	00001		0000F8	25849	25852
MRD353	00001		0000F8	25862	25865
MRD354	00001		0000F8	25875	25878
MRD355	00001		0000F8	25888	25891
MRD356	00001		0000F8	25901	25904
MRD357	00001		0000F8	25914	25917
MRD360	00001		0000F8	25927	25930
MRD361	00001		0000F8	25940	25943
MRD362	00001		0000F8	25953	25956
MRD363	00001		0000F8	25966	25969
MRD364	00001		0000F8	25979	25982
MRD365	00001		0000F8	25992	25995
MRD366	00001		0000F8	26005	26008
MRD367	00001		0000F8	26018	26021
MRD440	00001		0000F8	26036	26039
MRD441	00001		0000F8	26049	26052
MRD442	00001		0000F8	26062	26065
MRD443	00001		0000F8	26075	26078
MRD444	00001		0000F8	26088	26091
MRD445	00001		0000F8	26101	26104
MRD446	00001		0000F8	26114	26117
MRD447	00001		0000F8	26127	26130
MRD51F	00001		0000F8	26145	26148
MRETRY	00001		000004	29551	
MSBIT	00001		000004	29608	16441
MSGIND	00001	001	0123B5	23883	
MSGTEXT	00023	001	012E3F	24340	24009
MSGWAIT	00001	001	012E01	24334	24008
MSKBIT	00001		000080	29649	8551 8944
MTIEND	00001	001	00EC4A	20650	20638 20646
MTILAB1	00004	001	00EC20	20639	20636
MTILAB2	00002	001	00EC3E	20647	20642
MTILAB3	00004	001	00EC30	20643	20649
MULTITRK	00001		000080	29030	6142 6144
MUNSP	00001		000000	28858	
MUNSPB	00001		000002	28859	
MVC	00006	001	00E4DE	19808	19806
MVCDEACT	00001	001	00AA40	14110	14104
MVCFLD	00006	001	0015FE	01985	0445 6657 20731 20864 20937
MVCFLDEA	00004	001	00EDA4	20864	20423 20425 20605 20607 20831
MVCLOOP	00004	001	00AA32	14106	14116
MVCPOINT	00001	001	00EBB2	20599	20586 20595
MVCSTART	00006	001	005150	06573	6514
MVENTRY	00001	001	006668	07427	7368 7422
MVERST	00006	001	008E8C	11852	11846
MVZONE	00006	001	000B22	00797	16992 19838
MXTTIME	00004	001	00EF04	21022	21013
M0	00001		000000	28602	6653 7852 7853 10792 11004 11006 11032 11234 11357 11513 11516 11649 11722 11801

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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
					11877 11925 11959 11967 12402 12441 12464 12995 16090 16137 16176 27257
M1	00001		000001	28603	1773 3754 4542 8376 9030 9480 12461 14028 14206 14213 20283
M1017	00001		000000	28851	
M1017TP	00001		000000	28853	
M1018	00001		000000	28852	
M1018TP	00001		000000	28854	
M1050A	00001		000000	28797	
M11	00001		00000B	28611	
M12	00001		00000C	28612	1648 7442 13426 14605 14613
M125D	00001		000000	28798	24978
M125DP	00001		000001	28799	
M1287	00001		000002	28807	
M1288	00001		000002	28808	
M1403	00001		000000	28818	
M1403U	00001		000000	28820	24861 24874 24887 24900 24913 24926 24939 24952 24965
M1419	00001		000002	28834	
M1419P	00001		000002	28832	
M1419S	00001		000002	28833	
M1442N1	00001		000002	28790	
M1442N2	00001		000000	28792	
M1443	00001		000000	28819	
M15	00001		00000F	28613	1255 1281 3562 3623 3626 3628 3987 4095 6533 6539 6551 6563 7204 7216
					7395 7522 7823 7831 7840 7848 7869 7871 8207 8356 8818 8826 8898 8903
					8997 9058 9063 9068 9079 9090 9249 9413 9501 9584 9587 9773 9777 9779
					9833 9837 9858 9863 9886 10452 10454 11499 11831 14452 14454 14485 14818 18195
					19478 19551 19913 20195 20350 20355 20441 21448 21644 21788 22178
M2	00001		000002	28604	1408 4532
M2245	00001		000000	28826	
M2260	00001		000000	28847	
M2311	00001		000002	28810	
M2314	00001		000002	28812	25516 25529 25542 25555 25568 25581 25594
M2321	00001		000002	28811	
M2400T7	00001		000003	28784	28786 28788
M2400T9	00001		000002	28783	28784
M2495TC	00001		000000	28789	
M2501	00001		000002	28796	
M2520B1	00001		000002	28793	
M2520B2	00001		000000	28802	
M2520B3	00001		000000	28801	
M2540P	00001		000000	28800	24809 24822 24835 24848
M2540R	00001		000000	28794	24757 24770 24783 24796 28795
M2560	00001		000000	28855	
M2596	00001		000002	28791	
M2671	00001		000000	28831	
M2701	00001		000000	28836	24991 25004 25017 25030
M2702	00001		000000	28837	
M2702A	00001		000000	28838	
M2702B	00001		000000	28839	
M2702C	00001		000000	28840	
M2702D	00001		000000	28841	
M2703	00001		000000	28842	25043 25056 25069 25082

SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

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M2955    00001     000000 28857
M3       00001     000003 28605  0726  0746  1220  4802  6673  6821  7157  7209  7312  7417  7613 13996 15011 15549
                              15609 18572 19936 21951 22003 22072 22130
M3203    00001     000000 28827
M3211    00001     000000 28821
M3277    00001     000000 28849 25095 25108 25121 25134 25147 25160 25173 25186 25199 25212 25225 25238 25251 25264
                              25277 25290 25303 25316 25329 25342 25355 25368 25381 25394 25407 25420 25433 25446
                              25459 25472 25485 25498 26147
M3277B   00001     000002 28850
M3330    00001     000002 28813 25607 25620 25633 25646 25659 25672 25685 25698 25825 25838 25851 25864 25877 25890
                              25903 25916 28814
M3330B   00001     000002 28814
M3340    00001     000002 28815 28816
M3340R   00001     000002 28816
M3350    00001     000002 28817 25929 25942 25955 25968 25981 25994 26007 26020 26038 26051 26064 26077 26090 26103
                              26116 26129
M3410T7  00001     000003 28788
M3410T9  00001     000002 28787
M3420T7  00001     000003 28786
M3420T9  00001     000002 28785 25716 25729 25742 25755 25768 25781 25794 25807
M3504    00001     000000 28804
M3505    00001     000000 28803 28804
M3525P   00001     000000 28805
M3525RP  00001     000000 28806
M3540    00001     000002 28860
M3704    00001     000000 28846
M3705    00001     000000 28843 28846
M3791L   00001     000000 28844
M3800    00001     000000 28822
M3800B   00001     000000 28823
M3800BC  00001     000000 28825
M3800C   00001     000000 28824
M3881    00001     000000 28795
M3886    00001     000000 28809
M3895    00001     000000 28835
M4       00001     000004 28606  1494
M5       00001     000005 28607 10803
M5203    00001     000000 28829
M5203U   00001     000000 28830
M5425    00001     000000 28856
M6       00001     000006 28608 11786 11916
M7       00001     000007 28609  0739  1482  1600  1602  1705  1842  3806  3817  4052  4054  4063  4066  4069  4082
                               4090  4231  4792  4794  5129  5137  5139  5260  5267  5278  5706  5724  5757  5759
                               5761  5763  5947  6033  6077  6106  6160  6162  6164  6166  6536  6552  6960  7100
                               7147  7169  7202  7221  7225  7259  7361  7398  7399  7405  7410  7423  7444  7589
                               7622  7657  7681  7690  7759  7795  7798  7801  7804  7833  7881  8252  8256  8288
                               8293  8327  8364  8512  8575  8623  8645  8673  8694  8782  8805  8838  9019  9147
                               9284  9374  9386  9388  9549 10025 11003 11515 11573 11591 11834 11908 12059 12097
                              12105 12278 12336 12451 12478 12484 12587 12597 12650 14750 15026 15088 15089 15100
                              16055 16129 16284 16709 17634 17655 18020 18023 18339 18341 18688 18821 18823 18886
                              18996 19216 19540 19545 20773 20958 20959 21002 21264 21374 21457 21468 21486 21518
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
                                  21542 21727 21732 22409 22412 27234
M7770    00001     000000 28848
M8       00001     000008 28610  1555  1569  4535  5212  7443  7839  8746  8772 13424 16735 19019 19725 20169
NACTVBP  00002 001 00A7B2 13845 13972 14249
NAVAIL   00001     0000A0 24050
NBTFLG   00001     000002 28782 18867 18954 28783 28785 28787 28790 28791 28793 28796 28807 28808 28810 28811 28812
                                  28813 28815 28817 28832 28833 28834 28859 28860
NCCHHR   00005 1EE 000082 27627  7835  7846
NCPTE    00002 001 009CF8 13031 12788 12808
NDEACTP  00001 001 000984 00626  6734  6766 12697 12724 14069 14071 14327 14329
NE       00001     000007 28588  0759  1504  1510  1743  3572  8515  9832 11208 12404 13422 18406 19162 20235 20774
                                  20788 20790 21791
NEEDSNS  00001     000002 28620  4772  4865  5288  5300  5324
NEGZONE  00002 001 00B3DC 14685 14681
NEWMACRO 00001     000007 28513 14515
NEWPAGE  00004 001 00BDAC 15863 15905 15920 15927 15929 15934
NEWSUP   00001     000008 29376  3874  3888
NEXT     00004 001 00BE88 15923 15867
NEXTBUFR 00002 001 01DD20 27119 27126
NEXTCCW  00004 001 0016C0 02044  7291
NEXTE    00004 001 008FA6 11946 11953
NEXTENTR 00004 001 00BFAC 16056 16104
NEXTPAGE 00002 001 00969C 12525 12508 12517 12554 12662
NEXTPFR  00004 001 0095C4 12452 12440 12442 12448
NEXTPUB  00001 1F9 000008 27414  4406  4416  4544  5313  6763 19326 27415
NEXTRLD  00004 001 006A78 07832  7872
NEXTRLD1 00004 001 006AC4 07848  7834
NEXTRLD2 00002 001 006ADA 07854  7849
NEXTRLD3 00002 001 006B00 07867  7865
NEXTRLD4 00004 001 006B02 07868
NEXTTRT  00004 001 00AC16 14295 14299
NF       00001     000001 29651 11298 11319 11553 11616 12268 12330 12480 12498 12593 12666 13075 13082 13139 13631
NFF      00001     000008 29654 11583 12617 12665 12860 13067 13188 13189 13191 13192
NFNDNTXT 00004 001 006554 07338  7331
NH       00001     00000D 28592  3556  3582 15730
NICL     00001 001 001CD0 02498  0326  3011  3083  3155  3227
NICLPT   00002 1DB 00004A 28273
NIXRPS   00001 001 0065EA 07388  7379
NL       00001     00000B 28590 14684 15266 15541 15559 16196
NM       00001     00000B 28591  0946  4191  8884
NO       00001     00000E 28594  9024 15531 16514 18866
NOABCNCL 00001 001 00E7E0 20173 20165
NOAL     00001     000002 29146
NOAR11   00006 001 00E2C2 19544 19542
NOATTENT 00004 001 003138 03921  3859  3863  3873  3911  3913  3915  3917
NOATWAIT 00004 001 00309A 03871  3868
NOBRCH   00001     000000 28595
NOBRST   00001     0000FD 28657  4370
NOBTDEQ  00001 001 003030 03843  3787  3789  3792  3840
NOBTFCH  00001     0000FF 19565 19507 19535
NOCARRY  00001     00000C 28514 14561 14591
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
NOCB1	00002	001	00D4F2	18290	18238 18240 18242 18244 18247 18249 18251 18253
NOCCHIO	00001	001	00DEC4	19152	19147
NOCHAN	00001		0000FF	17468	16961
NOCHK	00001	001	0061C0	06985	6976 6978 7308
NOCHSW	00001	001	0066E2	07491	7487 7489
NOCL44	00004	001	0014B6	01833	1831
NOCRT	00001	001	00DA52	18735	4473 18691 18693 18695 18699
NOCRTCND	00004	001	00D9E8	18703	
NOCRTFCH	00001	001	006410	07224	7222
NOCRTRAS	00001	001	00C53E	16918	16900 16904 16906 16908 16910
NOCRTSIO	00001	001	00381A	04475	4469
NOCUBSY	00004	001	00383E	04486	4479 4484
NODEACTT	00004	001	008618	11054	11052
NODIBUPD	00004	001	003598	04282	4243 4264 4269 4273
NODSKEQE	00001		000005	23225	4755 5297 6419
NOEOF	00004	001	003674	04349	4234 4239 4286 4307 4309 4313 4315 4331 4336 4347
NOEXSVC	00002	001	00104A	01326	1303 1323
NOFND	00001		000008	14379	13981
NOFREER	00004	001	00A4F2	13638	13628
NOFRST	00001		000080	23868	
NOGETV	00001	001	006838	07621	7616
NOHQREQ	00004	001	004A40	06359	6357
NOHQSIO	00004	001	00DAA8	18777	18773
NOIRSDEQ	00002	001	003400	04155	4135 4137
NOLOG	00001	001	004414	05849	5835 5837 5840
NOLPYEAR	00001		00016D	28520	14716
NOLTA	00004	001	00A828	13911	13906
NOLUBV	00001		000036	28900	18072
NOMAINT	00001	001	003650	04337	4334
NOMSG	00001		000000	17479	
NOMVCT	00001		000010	14381	14097 14134 14258
NONOPR	00001		000010	17463	
NOOCDEQ	00001	001	00CF60	17598	17591 17593
NOOP	00001		000003	28998	2139 2140 7309 7310 7350 7351
NOP	00001		000003	28997	2176 6602 18514 19211 19212
NOPDFLT1	00001	001	000CC0	00970	0944 0946
NOPDFLT2	00001	001	0067B0	07573	7555 7571
NOPDINTR	00001	001	002EF4	03743	3733
NOPDSIO	00004	001	00DA82	18767	18756
NOPDTRHK	00001	001	00835C	10829	10811
NOPGFREE	00001	001	006A62	07822	7789
NOPGQUT	00001	001	00AAB2	14158	14344
NOPOW	00002	001	00D434	18219	18190 18192 18197 18211
NOPOWQ	00001	001	000E30	01122	1116 1118
NOPST	00004	001	00C08A	16133	16126 16130
NOPWRSVC	00001	001	000FD2	01289	1282 1285
NORCD	00004	001	004254	05679	5562
NORCDFND	00001		000008	28877	5561 5687 13354 13365 13380 13395
NORCD1	00004	001	00426A	05684	5862 5904
NOREMOVE	00004	001	009338	12180	12171 12183
NOREPL	00001	001	007E5A	10273	10255

SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
NOREQCAN	00004	001	0030F4	03899	3897
NORESOR	00001		000004	29509	
NORLDIT	00001		000004	29385	
NORMDEV	00001		0000FE	29647	8190
NORMEOJ	00001		000010	29282	0681 1117 1119 1262 20185 20497
NORMPCK	00001	001	00831E	10805	10798
NORMPF	00004	001	0084E2	10957	10947 10955
NORPSCHP	00001	001	0035E2	04305	4298 4303
NORPSWS	00001	001	00669E	07458	7454
NOSEC	00001		000004	23873	
NOSELECT	00001	001	005E92	06680	
NOSIZE	00001	001	00D676	18415	18409 18411
NOSO1	00001	001	00D59E	18346	18324
NOSPOOL	00004	001	00D42C	18216	18203
NOSTECB	00004	001	00E9DA	20406	20404
NOSUBAT	00001		0000FD	29489	20592
NOSVA	00004	001	0063AA	07191	7181 7183
NOSVAPH	00001	001	006792	07562	7560
NOSWAP	00004	001	006630	07408	7406
NOSYN	00004	001	000F6A	01250	1244
NOSYN1	00002	001	000CE8	00984	0976
NOSYSIN	00004	001	00D804	18540	18537
NOSYS1	00001	001	000B9E	00858	0854
NOSYS2	00001	001	000D2A	01012	1008
NOTACT	00001		000080	29078	1176 3654 3894 4092 14003 19543 20576
NOTBSY	00001	001	003208	03986	3979 3981
NOTBSY1	00001	001	00321E	03995	3988 3990
NOTBSY2	00004	001	00321E	03996	3975
NOTCHEND	00001		000027	28633	
NOTEXT	00001	001	006778	07549	7485
NOTFIX1	00006	001	00B4E8	14783	14778
NOTFND	00001		000004	29274	7092 7338 14980
NOTINQU	00004	001	00BE28	15896	15886
NOTJAT	00001	001	000C38	00913	
NOTNEG	00004	001	000D92	01051	1048
NOTODEX	00002	001	00B274	14535	14523
NOTOP	00002	001	001590	01920	4790 18478
NOTPAPP	00001	001	00D1FC	18012	17998 18000 18002
NOTPWRVS	00001	001	00CF12	17571	17569
NOTQUED	00001		0000FF	28508	0798 3771 3958 4419 18351 19029 19055
NOTRANS	00001	001	0067F2	07598	7594
NOTRAS	00001	001	006020	06805	6800
NOTRDONE	00002	001	0069D0	07779	7775
NOTRNS1	00001	001	006816	07608	7600
NOTRTA	00001	001	002F7E	03785	3782 4514 4518 17038
NOTTAPE	00001	001	00D7BA	18517	18465 18467
NOTTAPE2	00004	001	003294	04048	4030 4032 4042
NOTTIME	00001	001	000C24	00906	0901
NOTUSYS	00001	001	008398	10854	10851
NOT3340	00001	001	004308	05740	5735 5737
NOVAL	00001		000007	29434	

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

NOVAPSW  00001 001 00C2B4 16448 16443
NOVSM    00001 001 000E6C 01143  1127  1131
NOVSM40  00004 001 000E68 01142  1139
NOWFXD   00001     000001 28945  8922  8928 10023
NOWRAP   00004 001 00D4B6 18273 18271
NOXCPR2  00001 001 00D6A6 18437 18422 18426
NO75CNCL 00004 001 00769A 09133  9127
NO81BYT  00001 001 0035BE 04295  4293
NP       00001     00000D 28593
NPAGE    00004 001 0093A6 12241 12238 12259 12261 12263 12265 12269 12289
NPART    00002 001 000724 00387  1026  1073 13897 13946 14011 14099 14292 14658 27194 27219
NPBIT    00001     000001 17451 16449 16451 16472
NPCIL01  00001 001 00617C 06959  6952  6954
NPCNCL   00001 001 000FA4 01270  1256  1261  1263  1267
NPFRSW   00004 001 0095D2 12457 12431 12443
NPHOPC   00001 001 008378 10838 10832
NPI      00004 001 00A7C4 13861 13687 13712
NPTEAD   00004 001 009CD0 13019 12761 12828
NRESMF   00002 001 00F7E6 22327 22072 22073 22074 22076 22311 22317 22320 22322 22323
NRFRETRY 00001     000004 28878  5685
NRMEXIT  00004 001 009192 12103 12076 12114
NRPSYF2  00001 001 00D8D2 18610 18608
NRPSYSF  00001 001 00D87C 18588 18586
NRTASIO  00001 001 0037FE 04467  4461
NRTASIO1 00004 001 003816 04474  4471
NRUR     00001 001 012E84 24365  1997 22328
NRURLG   00001     00000C 27717 22016 22205 22207 22279 22328 22440 22454 22482
NRURLU   00004 001 00F7E8 22328 21971 22280 22436 22456
NRWT     00001 001 0094E4 12334 12317
NSPE     00002 001 00A756 13840 12727 13813
NSS      00001 1EE 000097 27644  7836  7847
NSVAPHO  00001 001 008F42 11912 11907
NTOPCHN  00001     000080 28650
NTXTNTRY 00001     000001 29361  7111  7330  7484  7581 14973
NUCEND   00001 001 020A18 27302 27303
NULL     00001     0000FF 29484  8407 17111 19112 19218 27172
NUMBER   00008 001 0122F6 23767
NVBLK    00001     000003 29474 29475
NXTCCW   00004 001 012318 23783 23784
NXTCHAN  00001     000100 29512
NXTENTR  00004 001 00946A 12302 12526
NXTPFTE  00004 001 008BF8 11617 11615
NXTRPUB  00004 001 005F7A 06747  6764
NXTTRT   00004 001 00A7FC 13900 13904
NXT1     00004 001 00DB02 18817 18828
NXT11    00004 001 001442 01773  1779
NXT2     00004 001 00146A 01790  1788
NXT3     00004 001 0014A4 01829  1792
NXT4     00004 001 001394 01697  1692
NZ       00001     000007 28589  1464  3889  4427  5539  5560  5573  5575  5583 11295 17675 18366 18380 18701 19245
                                 20254 20496 21789
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
NZER3340 00001     000070 29263
N29      00001     00001D 29330 20770
O        00001     000001 28585  1446  1495  8478  8919  9836 11203 11433 15260 16512 18697 19249 19265
OCCUP    00001     000001 28621  4756  4763  4772  4775  5060  5068  5123  5131  6275  6420 19987 19993
OCHAIN   00001     000040 23836 23826 23827 23828
OCINTR   00002 001 002E68 03641  3543
OCINTR1  00004 001 002E86 03652  3648
OCPEND   00001     000020 29100  6853  6858
OCPT     00002 1DB 000068 28288
OCTAB    00001 001 001B9C 02466  0338  3023  3095  3167  3239
OFFDEFIX 00004 001 0089DA 11384 11563 11604 11770 12276
OFF2501  00004 001 00D6E2 18455 18447
OIINSTR  00004 001 00A518 13652 13649
OKDEACT  00004 001 0014F4 01857  1828
OLDCS    00006 001 0061C4 06987  6972
OLDPSW   00001 001 000BFC 00894  0895
OLDPTE   00004 001 009CD8 13021 12865 13102 13201 13232
OLTABL   00004 001 00150C 01886  0416
OLTAC    00001     000080 29308  1374 19085
OLTAPP1  00004 001 00150C 01887 18742
OLTAPP2  00004 001 001510 01888  3762
OLTP     00001     000004 28887  4060  4229 18460
OLTPCOMP 00006 001 00DE2C 19109 19118
OLTPHALT 00001     0000FF 29310 19088 19100
OLTPHIO  00001     000008 29309
OLTRET1  00004 001 00DA66 18744  1887
OLTRET2  00001 001 002F38 03764  1888
OLTSAV   00004 001 001508 01885 19087 19088 19092 19100 19109
ONDWB    00001     000007 29499
ONE      00001     000001 29417  4256  4277  4680  4950  5594  5624  5663  5873  6761  7283 10110 10190 14102 14724
                              18074 18822 19083 19109 19109 19770
ONOCHAIN 00001     000000 23837 23829
OPCODE   00008 001 0122F0 23762
OPCOM    00001     000040 29228  3542
OPEN     00004 001 001828 02171  7593
OPENGTE  00004 001 008DF0 11800 11782 12977
OPFCOTA  00004 001 009370 12196 12160 12176
OPIND    00001 001 0006D6 00349  1098
OPINTV   00001     000008 28665  0709  3956  3966  4010  4019  4426  6751 18379 19030 20013
OPINTVRQ 00004 001 00E716 20013 20010
OPTNBYTE 00001 1DB 000086 28299  1126  7615
OREAD    00001     000006 23834
ORIGVIRT 00004 1DC 000008 28241 27140 27211
OSEARCHC 00001     000031 23831 23827
OSEEK    00001     000007 23830 23826
OSEEKFL  00001     000006 23838 23826 23828
OSLI     00001     000020 23835
OSRCHFL  00001     000005 23839 23827
OTIC     00001     000008 23832 23828
OVERRUN  00001     000004 28963
OVRFLW   00004 001 00DB32 18829 18819
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
OWCC      00001     000000 24010
OWNTIMER  00001     000040 27683  3674  3676  6709 14886 21016 21030 21044 21053
OWNUCRT   00001     000001 28869  4900  5152 17249 18239
OWRITE    00001     000005 23833 23829
P         00001     000002 28584
PADS      00001 1E0 000000 28025  1257  1283  1571  3991  4097 18206 19553 19915 21450 21452 21454 21456 21646 21648
PAEB      00004 1E0 000150 28048  4100 19554 19918 21456 21648
PAEN      00004 1E0 000160 28058
PAFA      00004 1E0 000158 28056
PAGECHK   00002 001 006A32 07805  7803
PAGEFREE  00004 001 006A4A 07812
PAGEFT    00001     000007 14377 14231
PAGEIND   00001     000001 28554 15233 15275
PAGEIO    00004 001 00A1C0 13326 12820
PAGEOPT   00002 001 00BD16 15755  0537  1233 14074 15753 20527
PAGEOUT   00004 001 00BD18 15772 22685
PAGETAB   00001 001 00C248 16308 16043 16208 16220 16240 16281 16301
PALB      00184 1E0 000078 28028
PALE      00004 1E0 000168 28064
PALS      00004 1E0 000164 28063
PANU      00001 1E0 000140 28035
PAPA      00004 1E0 000154 28055
PARCHG    00001     000008 23865
PARIND    00001 001 001588 01916 14514 14518 14627
PARTPAR   00001     000040 23869
PARTRED   00002 001 012384 23848
PARTRED1  00002 001 012386 23849
PARTSTRT  00001     000000 29384
PASD      00016 1E0 000140 28043
PASV      00120 1E0 000000 28027 28031 28032 28033
PATCH     00002 001 01DBCE 27091  0282
PAVA      00004 1E0 00015C 28057
PBMASK    00004 001 00BF04 15959 15853
PBOWNPTR  00004 001 000770 00420 19105
PBSVA     00001     000004 28571 15287 15294
PB2BRSTN  00001     000010 27869
PB2BURST  00001     000030 27868
PB2CHAR1  00004 1E2 000030 27882
PB2CHAR2  00004 1E2 000034 27883
PB2CHAR3  00004 1E2 000038 27884
PB2CHAR4  00004 1E2 00003C 27885
PB2CINDX  00001 1E2 000058 27891
PB2CMCHR  00004 1E2 000044 27887
PB2CPMOD  00004 1E2 000040 27886
PB2CPYGP  00008 1E2 000050 27890
PB2DBRST  00001     000080 27851
PB2DCHAR  00004 1E2 000014 27855
PB2DDCHK  00001     000040 27852
PB2DFCB   00004 1E2 000010 27854
PB2DFLG   00001 1E2 00000F 27850
PB2DFLSH  00004 1E2 00001C 27857
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
PB2DFLT  00001     000020 27879
PB2DFORM 00004 1E2 000020 27858
PB2DMDFY 00004 1E2 000018 27856
PB2FCB   00004 1E2 00002C 27881
PB2FCBV  00001     000080 27877
PB2FLAG1 00001 1E2 000029 27865
PB2FLAG2 00001 1E2 00002A 27876
PB2FLASH 00004 1E2 00004C 27889
PB2FLSHC 00001 1E2 000059 27892
PB2FORMS 00004 1E2 000048 27888
PB2INIT  00001     000040 27866
PB2MARK  00001     000002 27874
PB2OFFST 00001     000001 27875
PB2QSPRT 00001     000040 27878
PB2SDR1  00001 1E2 000006 27841
PB2SDR2  00001 1E2 000007 27842
PB2SDR3  00001 1E2 000008 27843
PB2SDR4  00001 1E2 000009 27844
PB2SDR5  00001 1E2 00000A 27845
PB2SDR6  00001 1E2 00000B 27846
PB2SDR7  00001 1E2 00000C 27847
PB2SDR8  00001 1E2 00000D 27848
PB2SDR9  00001 1E2 00000E 27849
PB2TRCY  00001     000004 27873
PB2UDCHK 00001     000008 27871
PB2WCGMS 00004 1E2 000024 27859
PB2WMOD  00001 1E2 000028 27860
PB2WMOD0 00001     000080 27861
PB2WMOD1 00001     000040 27862
PB2WMOD2 00001     000020 27863
PB2WMOD3 00001     000010 27864
PCALL    00001     000080 29636  4322  4325  4339 18662 18666
PCBADR   00001 1EB 000000 27685  3671  6698 14885 20434 20582 20820 20830 20892 20896 20906 21010
PCBATAB  00004 001 0060D0 06871  6677 20834
PCBBG    00001 001 00F960 22572  0499  6872 20865
PCBCHN   00004 1EB 000004 27689 20830 20897 20898 20903 20904 20908 20910 20912
PCBFLAG  00001 1EB 000000 27686  3674  3676  6709 14886 21016 21030 21044 21053
PCBF1    00001 001 00F980 22588  6876 22587
PCBF2    00001 001 00F978 22584  6875 22579
PCBF3    00001 001 00F970 22580  6874 22575
PCBF4    00001 001 00F968 22576  6873 22583
PCBID    00001 1EB 000001 27687
PCBPTR   00004 001 000834 00499  3670  6678  6697 14884 20433 20581 21015 21029 21052
PCBTAB   00001 001 00F960 22571
PCBTNR   00002 1EB 000002 27688 20435 20437 20583 20585 20893 20907
PCI      00001     000080 28638  3925  4476
PCIL     00001     000008 29273  7097  7360
PCK      00001     000010 28642
PCKADR   00004 001 00002C 00226 10858 10861 10864 10867 10871 10877 11664
PCKADR1  00001 001 006186 06969 10885
PCKADR1A 00001 001 0061CA 06988 10886
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

PCKADR1B 00001 001 00627A 07077 10887
PCKADR1C 00001 001 006290 07087 10888
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PCKADR1E 00001 001 0061F0 07000 10890
PCKADR1F 00001 001 006AF4 07862 10892
PCKADR2  00004 001 0012EC 01613  1622 10893
PCKADR2E 00001 001 00623C 07054 10891
PCKADR4  00001 001 006D8E 08242 10866
PCKADR5  00001 001 006FB0 08445 10863
PCKADR6  00001 001 0071B8 08644 10860
PCKADR7  00001 001 0070FE 08586 10857
PCKATAB  00004 001 008408 10884 10876
PCKCBF1  00001 001 00D484 18256 10901
PCKCBF2  00001 001 00D48E 18260 10902
PCKCDL1  00001 001 00B654 14960 10904
PCKCDL2  00001 001 00B6AA 14991 10905
PCKCODE  00001     000020 29293
PCKCOMP  00004 001 0083F0 10878 10882
PCKEXCP1 00001 001 00D25C 18043 10899
PCKEXCP2 00001 001 00D260 18045 10900
PCKGVIS1 00001 001 00B8E6 15252 10906
PCKGVIS2 00001 001 00BA82 15438 10907
PCKGVIS3 00001 001 00BAAE 15452 10908
PCKGVIS4 00001 001 00BAB6 15455 10909
PCKGVIS5 00001 001 00BADA 15469 10910
PCKSVC02 00001 001 00E21A 19496 10896
PCKSVC07 00001 001 00E896 20253 10894
PCKSVC42 00001 001 00F45E 21735 10895
PCKSVC44 00001 001 00B46E 14746 10912
PCKSVC60 00006 001 0013A8 01703 10870 10870
PCKSVC65 00001 001 00B646 14953 10903
PCKSVC67 00001 001 00953E 12403 10911
PCKSV29A 00001 001 00E8E4 20306 10897
PCKSV29B 00001 001 00E8F0 20310 10898
PCNPSW   00004 001 000068 00242
PCOLDP   00004 001 000028 00225  0226 10799 10801 10846 10852 10959
PCOPSW   00001     000028 29303 10834 10916 10945
PCPTR    00002 1DB 000064 28286
PCROUT   00004 001 00EFAC 21127 10925
PCTAB    00001 001 001AAC 02445  0336  3021  3093  3165  3237
PD#C     00004 1DF 000038 28170
PD#L     00004 1DF 000034 28169
PD#P     00002 1DF 00003C 28171
PDAAPTE  00004 001 014AA0 26535
PDAAPTS  00004 001 014A9C 26534
PDADDR   00004 001 014AA4 26536
PDAID    00006 001 00889A 11251 11199
PDALT    00001     000001 28497
PDAREA   00004 001 014A60 26512  0404  0966  3735  3738  7563  7566 10815 18758 18761 26556
PDAREAND 00001 001 014FD7 26557 26512
PDARPTR  00004 001 000740 00404  0965  3734  7557 10812 18757
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
PDAS	00001		000080	28485	
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PDAUTS	00001		000002	28491	
PDBB	00004	1DF	000024	28164	
PDBIT	00001		000040	29589	16437
PDBN	00001		000008	28479	
PDBNUM	00001		000080	28483	
PDBO	00001		000020	28489	
PDCB	00004	1DF	000058	28196	
PDCCC	00001		000000	28478	
PDCL	00001	1DF	00005D	28198	
PDCM	00004	1DF	000018	28160	
PDDA	00001		000080	28471	
PDDB	00001		000084	28461	
PDDC	00001		000050	28468	
PDDD	00001		000015	28464	
PDDE	00001		000048	28466	28467
PDDE1	00001		00004A	28467	
PDDF	00001		000050	28460	
PDDG	00001		000068	28469	
PDDH	00001		0000E0	28462	
PDDI	00001		0000A0	28474	
PDDJ	00001		000070	28470	
PDDK	00001		0000EC	28463	
PDDL	00001		000010	28459	
PDDM	00001		000008	28458	
PDDN	00001		000090	28472	28473
PDDN1	00001		000093	28473	
PDDO	00001		000040	28465	
PDDS	00001	1DF	000000	28148	18198
PDDT	00001	1DF	00005C	28197	
PDECBP	00004	001	00E904	20321	20311
PDECBT	00004	001	00E8E0	20305	20313
PDECBW	00004	001	00E8FC	20317	20307
PDEIOERR	00001		000020	28876	
PDENTRY1	00004	001	014AC0	26552	10820 18762
PDENTRY2	00004	001	014AC4	26553	3739
PDENTRY3	00004	001	014AC8	26554	0969
PDENTRY4	00004	001	014ACC	26555	7568
PDER	00004	1DF	000040	28180	
PDFLAG	00001		000001	28689	0825 6917
PDFLINO	00002	001	000CB0	00964	0949 0956
PDFLRES	00004	001	000C90	00957	0953
PDFLTAB	00011	001	000CA4	00962	0950 0951
PDFLTHK1	00004	001	000C5E	00944	26516
PDFLTHK2	00004	001	006778	07555	7323 26517
PDFLTLP	00006	001	000C7A	00952	0955
PDFT	00001		000020	28495	
PDFT1	00001		000001	28496	
PDGE	00001		0000DF	29027	
PDIGN1	00002	001	014A96	26531	

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
PDIGN2   00002 001 014A98 26532
PDIGN3   00002 001 014A9A 26533
PDINTRHK 00004 001 002EDE 03733 26513
PDJN     00002 1DF 000028 28165
PDKEEPSW 00001 001 014ABB 26543
PDLOG    00002 001 014A92 26529
PDLSS    00001     000020 28481
PDMT     00001 1DF 00003F 28173
PDNE     00004 1DF 000014 28159 18199
PDNOPR   00001     000080 28871
PDOC     00001 1DF 00003E 28172
PDOFFL   00001     000040 28494
PDORN    00001     000020 28480
PDOVR    00001     000004 28490
PDPA     00004 1DF 000020 28163 18200
PDPART1  00001 001 014AA8 26537
PDPART2  00001 001 014AA9 26538
PDPART3  00001 001 014AAA 26539
PDPART4  00001 001 014AAB 26540
PDPART5  00001 001 014AAC 26541
PDPB     00004 1DF 00001C 28161
PDPHNM   00008 001 014A88 26527
PDPHOD   00002 001 014A94 26530
PDPI     00002 1DF 000012 28158
PDPIKSV  00001 001 008359 10827 10817
PDPKR    00001     0000CF 29026
PDPU     00004 1DF 000050 28194 28163
PDRCD    00001     000080 28484
PDREGSAV 00004 001 014A7C 26520  3736  3740  7564  7569 18759 18764
PDREJ    00001     000040 28482
PDRQ     00002 1DF 00005E 28199
PDSE     00001     000001 28492
PDSIOHK  00004 001 00DA6A 18756 26514
PDSL     00004 1DF 000030 28168
PDSNOS   00001     000013 28487
PDSNOT   00001     0000B0 28488
PDTABB   00002 1DB 00007E 28296
PDTC     00004 1DF 000054 28195
PDTIKSV  00001 001 008355 10825 10816
PDTRANHK 00004 001 00831E 10811 26515
PDVM     00002 001 014A90 26528
PEBIT    00001     000020 29604 16506
PEND     00001     000004 29641  4341
PFAD     00004 001 009CCC 13018 12755 12768 12825 12827
PFADDR   00004 001 00A390 13501 13326 13327 13328
PFAEXIT1 00004 001 008D02 11715
PFAEXIT2 00004 001 008ECA 11870 11860
PFAPPEND 00001 001 008556 10991 10974
PFARID   00004     000018 29352 10831 10952 11718 11873
PFATAB   00004 001 0086C4 11088 11089 14034
PFDISP   00001 001 008C04 11642
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PFEXIT   00001 001 00862A 11061 11001 11249 11678 11687 11690 11697 11726 11736 11802 12107 12303 15951 16004 16024
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PFFLIH   00001 001 0084A6 10941 10787
PFGBND   00001     00006D 29067  1795  9795 11686 12960
PFGENENT 00001 001 000BE0 00886 10960 16494
PFIX     00001     000020 29689
PFIXEXIT 00001 001 009732 12569 12562
PFIXID   00001     000004 29658 12510 12868 12874
PFIXIMD  00004 001 009780 12594 12600
PFIXPAGE 00004 001 009764 12585 12516
PFIXPGE  00004 001 009754 12580 12880
PFREELST 00004 001 00939E 12238 12233
PFREENTR 00001 001 00859C 11014 10972 11009
PFRENTRY 00004 001 00BEF8 15956 15882 15898 15940
PFRESVC  00001 001 008562 10995 10975
PFREXIT  00002 001 009742 12574 12292 12299
PFRFND   00004 001 00960E 12478 12450
PFRFND1  00004 001 009612 12480 12485
PFRLIST  00004 001 009394 12235 12459 12564 12676
PFRNU    00004 001 00BEFC 15957 15879 15906 15917
PFRPGE   00004 001 0093C2 12250 12245 12247
PFSA     00004 001 00867C 11075  1861 11123 11129 11488 11497 11503 11505 11510 11541 11607 11608 11715 11724 11870
                           11881 12646 12667 14198
PFSAR2   00004 001 0086B4 11077
PFT      00002 001 014FD8 26560  0454 26560 26562 26563 26564 26565 26566
PFTX     00001 001 019000 26568  0455
PFUSER   00001 001 008536 10980 10973
PFWAIT   00004 001 00100A 01306 10997 12680
PF00     00001     000000 28134 28096
PGAD     00004 001 009CC8 13017 12754 12870
PGFR     00004 001 00A63A 13757 14262
PGFR1    00004 001 00A69A 13783 13768 13774
PGFR2    00004 001 00A6B0 13789 13780
PGFR3    00004 001 00A65C 13767 13784
PGFR4    00004 001 00A696 13782 13790
PGIN     00001     000006 29205 10950 16026 16265
PGINEND  00004 001 00C072 16127 16057 16080
PGINENDT 00004 001 00C06A 16125 16078
PGINGTE  00001 001 00BF67 16023 16025 16136
PGINIT   00004 001 00BF82 16044 16135
PGLOOP   00002 001 00AA5E 14127 14140
PGLOOPX  00001 001 00AA54 14123 14259
PGMBASE  00004 001 00088C 00529  0764  1150  1273  1664 19504 22701
PGMC     00001     000020 28641
PGMILC   00002 001 00008D 00257
PGMINF   00002 001 00008C 00256  0257 10800 10835 10917
PGMINTC  00002 001 00008E 00258 10786 10788 10797 10803
PGNBLOCK 00002 001 001738 02098  0436 16028
PGNFLG   00001 001 0015D4 01955  1956  2098
PGNPIK   00001 001 00173A 02099
PGNPTR   00001 001 00079E 00436 16248
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

PGNSAVAR 00001 001 0120C8 23667  2101
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                             12945 12974 12998 13810 14124 14164 15884 16259
PGQUT    00001 001 00AAB8 14161 14343
PGRLUB   00002 001 001CF2 02513 26305 26330 26355 26380 26425 26445 26465
PGTABADR 00001 1D9 000000 28337 16012 16042 16207 16280
PGTABEND 00004 001 00C240 16302 16009
PGTBIND  00001 1D9 000004 28340 16017 16018 16077 16099 16102 16127 16131 16224 16243 16245 16283
PGTBTIK  00001 1D9 000000 28338 16015 16016 16044 16215 16221 16288
PGTECBP  00003 1D9 000005 28341 16129 16284
PGTFULL  00001     000040 28919 16108
PGTLISTP 00003 1D9 000001 28339 16055
PG1X     00004 001 00A1E0 13334
PG2X     00002 001 00A24E 13368 13335
PG3X     00002 001 00A27E 13383 13337
PHASEFND 00001 001 00656C 07349  7249
PHFND1   00001 001 00659A 07362  7359
PHFND2   00001 001 0065B2 07369  7366
PHNFND   00001 001 0064EC 07303  6990  7016  7021  7136
PHNFND3  00001 001 00651C 07317  7313
PHNFND4  00001 001 006526 07325  7575
PHNFND4A 00001 001 0064DA 07290  7288
PHNFND5  00001 001 006560 07342  7336
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PHOFLG   00001     000080 28677 11725 11727 11733 11884 14035
PHOID    00001     000008 29353 11775 11961
PHOSAV   00004 001 008FF8 11970 11966
PHSALD   00004 001 00B718 15028 15099 15107
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PHSLEN   00001     000011 28533 15026 15100
PHSLOAD  00001 001 00B758 15055 15040
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PHSNAME  00001     000005 28529 14959 14962 14962 14963 14990 14993 14993 14994 15001 15003 15004 15016 15022 15026
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                             20768 20791 20802 21303 21459 21472 21643 27266 27660 27668
PIBASS   00001 1EC 00000C 27663  3791 14022 18001 20394
PIBCNCL  00001 1EC 000001 27656  0717  0735  1117  1119  1128  1130  1140  1142  1162  1226  1262  1315  3571  4043
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                             20210 20217 20396 20497
PIBCOMRA 00002 1EC 000000 27669  0726  0746  1220  3774  4802  6673  6821  7157  7613 11893 13996 14662 15011 15549
                             15609 17567 18572 19936
PIBDATFL 00001 1EC 000004 27658  1191  1193  1445  3592  3595  3597  6685  6835  6842  6844  6846  6850  6853  6858
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                             20997 27267
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
PIBDIFF  00004 001 000BDE 00885  0713  0716  0720  0723  0744  0882  0977  0983  1223  1242  1250  1320  3773  6945
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                                 20519 20542 20579 20960 20962 20992 21258 21270 21279 21286 21384 21386 21476 21478
                                 21687 21689 21787
PIBECB   00004 1EC 000008 27673 20406
PIBFLG   00001 1EC 000000 27655  1176  1178  1180  1186  1225  1290  1309  1673  1795  3594  3654  3656  3894  3899
                                  3901  3935  4092  4094  6681  6831  6910  7424  7893  8410  9110  9121  9795  9818
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                                 12331 12502 12521 12960 12983 14003 14020 14191 14221 14245 14976 15081 15115 16125
                                 16132 16225 16291 17575 19476 19536 19558 19575 19912 20109 20129 20131 20317 20372
                                 20498 20566 20571 20576 20789 21459 21472 21643 21740 22028 22543
PIBFLG2  00001 1EC 00000F 27666  0755  0757  1224  1260  1286  1313  3600  3677  3679  4338  6687  6859  9126 14005
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                                 20164 20166 20176 20181 20218 20219 20397 20443 20454 20495 20499 20509 21129 21209
                                 21756
PIBFLG3  00001 1EC 00000F 27676  0714  0978  1243 20401 20522 20961 20991 21265 21385 21477 21688
PIBLOGID 00002 1EC 000002 27657 18991 20577 20577
PIBLUBID 00001 1EC 00000D 27664 18070
PIBLUBNO 00001 1EC 00000E 27665 18077
PIBPIK   00002 1EC 00000C 27674  3776  6672  6820 11600 11766 11810 11902 16048 19826 19835 20491 20787
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PIBRID   00001 1EC 000008 27661  9113 10965 11040
PIBSAVE  00004 1EC 000004 27659  0887  1164  1310  1422  1451  1605  1690  6682  6690  6838  7343 11196 11245 11419
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                                 20531 20568 20957 20959 21001 21002 21028 21132 21228 21395 21569 21741 21979 22021
                                 22177
PIBSAV2  00004 1EC 000008 27662  0739  1833  6914  8970  9815  9885 10462 11019 11031 11387 12006 12648 14951 14979
                                 15084
PIBSVCK  00001     000004 27678  0978  1243 20961 20991 21265
PIBTAB   00004 001 0019B4 02320  0331  0884  1322  3016  3088  3160  3232  6679  6975 11605 11771 16049 20494 20789
                                 20791
PIBXECB  00001     000001 27679 20401 20522 21385 21477 21688
PIB2PTR  00002 1DB 00007C 28295
PIB2TAB  00016 001 0018B4 02256  0345  0884  1322  3030  3102  3174  3246  6679  6975 11605 11771 14660 16049 20494
                                 20789 20791
PID      00002 1DB 00002E 28256
PIDCTR   00004 001 00A744 13835 13687 13689 13689 13691 13694
PIK      00002 001 00067E 00309  0817  0968  1064  1184  1547  1611  1614  3776  4868  4889  6672  6675  6706  6820
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                                 11046 11231 11275 11354 11370 11667 11810 12050 12144 12250 12270 12310 12326 12383
                                 12493 12529 12536 12570 12582 12613 12621 12631 12670 13178 15009 15045 15555 15566
                                 15607 15652 15840 15935 16048 16188 16466 19083 19527 19666 19826 19835 20282 20338
                                 20430 20473 20491 20591 20733 20777 20933 20969 20993 21190 21268 21790 22031 22216
PINSERT  00001     000008 29640
PIRCTR   00004 001 00A748 13836 12690 12690 12708 12717 12717
PLUS     00001     00004E 29681  4327
PMBIT    00001     000002 29609 16441
PMGR     00001     000004 29203 11699 29404
PMGRADR  00001 001 0082E6 10784  0422  0552  0553  1236  1435  1514  1539  1860  3820  6732  6834  7669  8413  8764
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PMGRPSW  00004 001 012088 23664
PMGRSVC  00004 001 0087EC 11169  0534
PMR      00004 001 009948 12751 11707 11811
PMRA     00004 001 009B08 12868 12765 12852
PMRB     00004 001 009B40 12884 12844
PMRBLOCK 00002 001 001730 02093  0434 11701 11971 12986
PMRC     00004 001 009B34 12880 12875
PMREQID  00001     000004 29404  5988 17280
PMRFLG   00001 001 0015D2 01953  1954  2093 12994
PMRGTE   00001 001 008CC7 11696 11508 11698 11800 11924 11968 12720
PMRINIT  00001 001 008DFC 11804 11799 11919 11936 11975 12978 12990
PMRPIK   00001 001 001732 02094
PMRPTR   00001 001 00079C 00434
PMRSAVAR 00001 001 012080 23663  2096
PMR01    00004 001 0099BE 12782 12773
PMR02    00001 001 0099CA 12786 12783
PMR1     00002 001 0099D2 12789 12763 12770
PMR2     00004 001 009A3E 12815 12796
PMR3     00004 001 009A24 12809 12802
PMR4     00004 001 009A66 12825 12818
PMR5     00004 001 009A6E 12827 12824
PMR7     00004 001 009AA0 12841 12839
PMR97    00001 001 009AC6 12850 12895
PMR98    00001 001 009A86 12833 12830
PMR99    00002 001 009B48 12886 12832
PN       00001     000004 29687 12167 12168
PNRM1    00002 001 009CFE 13034 12795 12888 13084 13234 13629
POOLIND  00001     000002 28553 15189
POPGQU   00004 001 00BDFC 15884 15876
POSCNT   00004 001 0123BC 23887
POSTDE   00001     000004 28868  0709  3996  4010  4353  4355 16655 16663 18239 19014 19030 19138
POSTENT  00002 001 008E1A 11815 11777 11791
POSTSTAT 00006 001 0034EC 04232  4230
POSTSUB  00001 001 00F3A2 21630 21438 21520
POSTSUB1 00001 001 00F3B2 21636 21414
POSTTSK  00001 001 008E6A 11839 11827 11864
POS4     00004 001 0123BC 23886
POS6     00001 001 0123C0 23889
POTQ01   00004 001 00BEA0 15930 15912
POVBIT   00001     000001 29643  4325 18666
POVMOD   00001     000040 29637
POVNAM   00007 1DB 000098 28307
POVREQ   00001     000010 29639
POWERACT 00001     000020 17700 17568
POWFLG1  00001 1DB 0000A4 28310  0730  1115  1210  1221  1266  1558  3909 11896 12048 12131 13999 19940
POWFLG2  00001 1DB 0000A5 28311
POWIJCL  00001     000004 01121  1115 12048 12131
POWNOIGN 00001 001 00E664 19954 19950
POWNTOP  00004 001 00E67C 19961 19958
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POWSUP   00001     000040 01272  1221  1266
POWWAIT  00001     000008 01120  1115
PPBEG    00002 1DB 000008 28247
PPBEGIN  00001     021000 27306  0300  0382  2335  2985  3057  3129  3201 27307 27309 27312
PPBIT    00001     000001 29398  6702  6723 10846 20953 20970 21267
PPEND    00004 1DB 000020 28252  1132  7617  7622 12057 12098
PPTEST0  00004 001 003628 04325  4321
PREG     00001     000007 28543 15226 15227 15229 15230 15235 15237 15251 15270 15270 15279 15296 15296 15297 15298
                                15300 15300 15303 15313 15389 15433 15449 15526 15527
PRGPRT   00001     000030 28640  3856  4836  5148
PRINTCCB 00002 001 0124B0 24061 24070 24072 24074 24076
PRINTCCW 00008 001 0124C8 24078 24067
PRINTER  00001     000040 28697  3989  4918
PRINTSNS 00004 001 0124A8 24058 24077
PROCDIB  00001 001 00D982 18665 18661
PROCESS  00004 001 00B27C 14543 14529
PROCNAM  00008 1DB 00008F 28305
PROGBITS 00001     00000F 29400 20972
PROVALRM 00001 001 00DA14 18716 18714
PRTYCHN  00004 001 00EDA8 20865 20830
PSAD     00120 1E0 00000C 28033
PSCC     00120 1E0 00000A 28032
PSERTN   00001     00007F 29103  6685
PSIP     00120 1E0 000008 28031
PSIZE    00001     000800 28558 15539 15542 15619 15679 15699 15702 15719 15728 28568
PSSD     00016 1DF 000000 28155
PSSLOG   00001     000002 29642
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PSTEOF   00004 001 003660 04344  4319  4340
PSTEOP   00004 001 00365C 04341  4328
PSTFULL  00002 001 00C040 16106 16010
PSTINVLI 00002 001 00C05C 16115 16014
PSTINVPG 00004 001 00C02C 16099 16059
PSTNEG   00004 001 00C034 16102 16198
PSTRL    00002 001 00C04E 16111 16007
PSTTECB  00004 001 002E26 03617  3599
PSWB0    00001 001 009D02 13037 12931 12933 13233 13259
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PSWMSKD  00001 001 004605 05995  5990
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PTE       00002 001 01DF70 27290 27195
PTEXC     00001     000011 29320 10786
PTFREE    00001 001 00E6F0 19998 19995
PTREX     00001     000004 29433
PUBADR    00001 1F9 000000 27406   0212  0925  1091  5314  6516  8134 16423 17030 17119 17973 18370 18376 19028 19286
                                  19392 19439 20005 22553
PUBCHANN  00002 1F9 000000 27407   3754  3860  4123  4407  4523  4532  4542  4684  5251  5293  5365  6340  6398  6747
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PUBCHQPT  00001 1F9 000002 27408   0798  0801  3771  3958  4156  4158  4419  6749 18348 18361 19055
PUBCSFLG  00001 1F9 000006 27412   0709  3947  3956  3966  3972  3996  4010  4019  4129  4222  4355  4426  4441  4443
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PUBOWNER  00002 001 00241E 02565   0420
PUBPT     00002 1DB 000040 28268
PUBPTR    00001 1F9 000008 27415   1587  4366  4383  4400  4405  4413  4456  4979  5120  5209  5243  6317  6358 18333
                                  18369 18776 18872 18879
PUBRES    00004 001 000704 00376   6515
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PUB2AREA 00001 001 01393C 24554 24550 24551
PUB2EXT  00001 1E2 000006 27813 27817 27824 27832 27839 27898 27929 27978 27984
PUNCHDIB 00004 001 00D98C 18671 18659
PURGE    00004 001 0032A0 04051  4028  4034  4049
PURGE1   00004 001 0032B8 04057  4053  4055  5164
PURGE1B  00004 001 00331E 04088  4071  4080  4083
PURGE2   00001 001 00332A 04091  4061  4064  4070
PURGE3A  00001 001 0032F4 04073  4067
PURGE3B  00004 001 003326 04090  4085
PURWAITL 00004 001 001310 01643  1254 20656
PWRLTA   00002 001 00E2F6 19561 19552
PWSRVBND 00001     000097 29076 18213
PWTASKS  00004 001 008A7A 11460 11455
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P00C     00001     000000 24759 26206 26211 26216 26221 26261 26266 26271 26276 26426 26431 26436 26441
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P00E     00001     000008 24863 26246 26251 26256 26446 26451 26456 26461
P00F     00001     000009 24876
P01C     00001     000001 24772
P01D     00001     000005 24824
P01E     00001     00000A 24889
P01F     00001     000011 24980 26156 26161 26166 26171 26176
P02C     00001     000002 24785
P02D     00001     000006 24837
P02E     00001     00000B 24902
P03C     00001     000003 24798
P03D     00001     000007 24850
P03E     00001     00000C 24915
P030     00001     000012 24993
P031     00001     000013 25006
P032     00001     000014 25019
P033     00001     000015 25032
P04E     00001     00000D 24928
P05E     00001     00000E 24941
P06E     00001     00000F 24954
P07E     00001     000010 24967
P070     00001     000016 25045
P071     00001     000017 25058
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P08B     00001     000025 25240
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P082     00001     00001C 25123
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P09B	00001		000035	25448	
P09C	00001		000036	25461	
P09D	00001		000037	25474	
P09E	00001		000038	25487	
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P091	00001		00002B	25318	
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P095	00001		00002F	25370	
P096	00001		000030	25383	
P097	00001		000031	25396	
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P099	00001		000033	25422	
P130	00001		00003A	25518	
P131	00001		00003B	25531	
P132	00001		00003C	25544	
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P134	00001		00003E	25570	
P135	00001		00003F	25583	
P136	00001		000040	25596	
P160	00001		000041	25609	
P161	00001		000042	25622	
P162	00001		000043	25635	
P163	00001		000044	25648	
P164	00001		000045	25661	
P165	00001		000046	25674	
P166	00001		000047	25687	
P167	00001		000048	25700	
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P2APRTX	00001	1E2	000006	27840	
P2BBMASK	00001	1E2	000005	27812	
P2CCWAD	00004	1E2	000028	27958	
P2CLEAN	00002	1E2	000010	27948	
P2CSWRES	00001	1E2	00002C	27959	
P2DFLG	00001	1E2	000006	27900	5655 5817 5846
P2DIAGM	00001		000040	27804	
P2DISKE	00001	1E2	000018	27907	
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SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

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P2ERG    00002 1E2 00000E 27947
P2FLAGS  00001 1E2 000003 27802  4498
P2INAME  00002 1E2 000006 27986
P2INTSM  00001     000080 27803
P2LIMIT  00001 1E2 000004 27811
P2NAMEF  00001     000008 27807
P2NOISE  00001 1E2 00000D 27946
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P2OPEN   00001     000004 27808  4498
P2OPPTIE 00001 1E2 000015 27952
P2ORGTIE 00001 1E2 000014 27951 18506
P2PRD    00001 1E2 000012 27949
P2PWT    00001 1E2 000013 27950
P2RES3   00001     000002 27809
P2RES4   00001     000001 27810
P2RUNSAV 00016 1E2 000030 27961
P2SDERRQ 00001     000080 27901
P2STAT2  00001     000010 27806
P2TAPEX  00001 1E2 000006 27931
P2TBLK   00002 1E2 000026 27957
P2TECPT  00001     000004 27939  4500 18471 18476
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P2TEMPW  00001 1E2 00000C 27945
P2TERP   00001     000020 27935  4041 17052 18471 18809 19257 19850
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P2TFLG3  00001 1E2 00000A 27943
P2TIEORG 00001     000008 27937 18507
P2TNAME  00002 1E2 000006 27932  4046 17057 19855 19855
P2TREPO  00001     000010 27936 18503
P2TRES   00002 1E2 00004A 27967
P2TREST  00001     000001 27941 18490
P2TROR   00001     000002 27940 18503
P2TSCSW  00008 1E2 000030 27962
P2TSSNS0 00002 1E2 000038 27963
P2TSSNS5 00001 1E2 00003A 27964
P2TUNSOL 00001     000040 27934  4500
P2TVOL   00006 1E2 000020 27956
P2TWORKA 00008 1E2 000018 27955 18505
P2UNITE  00001 1E2 00000C 27820
P2UNITX  00001 1E2 000006 27818
P2USAGE  00003 1E2 000000 27801 18339 18341
P22400E  00001 1E2 00004C 27968
P23211E  00001 1E2 00000C 27835
P23211X  00001 1E2 000006 27833
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P23330E  00001 1E2 000020 27913
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P23420E  00001 1E2 000054 27974
P23540E  00001 1E2 000010 27828
P23540R  00002 1E2 00000E 27827
P23540X  00001 1E2 000006 27825
P23886E  00001 1E2 00001A 27980
P23895E  00001 1E2 000008 27987
P23895X  00001 1E2 000006 27985
P280     00001     000049 25718
P281     00001     00004A 25731
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P283     00001     00004C 25757
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P286     00001     00004F 25796
P287     00001     000050 25809
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P356     00001     000057 25905
P357     00001     000058 25918
P360     00001     000059 25931 26281 26286 26291 26296 26301
P361     00001     00005A 25944 26181 26186 26191 26196 26201
P362     00001     00005B 25957 26306 26311 26316 26321 26326 26331 26336 26341 26346 26351 26356 26361 26366 26371
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P364     00001     00005D 25983
P365     00001     00005E 25996
P366     00001     00005F 26009
P367     00001     000060 26022
P440     00001     000061 26040
P441     00001     000062 26053
P442     00001     000063 26066
P443     00001     000064 26079
P444     00001     000065 26092
P445     00001     000066 26105
P446     00001     000067 26118
P447     00001     000068 26131
P51F     00001     000069 26149
QEDERR   00001     000010 28664  0709  3947  3956  3972  4010  4222  4426  4443  4962  5041  5115  5122  6282  6310
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QPOST    00001     00001F 29332
QSVCPIBF 00001     000008 29090
QTBND    00001     00008B 29085
QUEIOREQ 00002 001 00D59E 18347
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

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QUISTAPE 00006 001 00E572 19860 19851 19853 19856
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QWAIT    00001     00001E 29331
Q00      00004 001 009018 11987 12182 12892 13077 13277 13307 13308 13555 13633 13789 15834 15913 27292
Q01      00004 001 009024 11990 13296 13303 13552 13781 15930
Q1       00004 001 018FD8 26562 11987 26562
Q10      00004 001 00901C 11988 13300 13308 13315
Q11      00004 001 009028 11991 13289 13309 13318
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Q3       00004 001 018FE8 26564 11989 26564
Q4       00004 001 018FF0 26565 11990 26565
Q5       00004 001 018FF8 26566 11991 26566
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RASACT   00001     000080 17454 16468 16471 16919 16921
RASATSIO 00004 001 00CFC4 17637 17633
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RASBLOCK 00002 001 001728 02088  0433
RASCANCL 00004 001 00CEF6 17564 17532
RASCCB   00002 001 00C920 17334 16730 16731 16732
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RASCCWS  00001 001 00C930 17341 16682 17339
RASCFREE 00001 001 00CFAA 17629
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SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

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RASDEQD  00006 001 00C6D6 17056
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RASDEQN  00004 001 00C708 17068 17063
RASDEQUE 00001 001 00CF36 17587 17530
RASDEQ0  00001 001 00C6E2 17058 17046 17053 17055
RASDIFF  00004 001 008780 11111 11238 11441
RASDMC   00001 001 000818 00481 16961 16963 16965
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RASDW    00001     000007 17499
RASEEK   00001 001 00C950 17346 16685 16686 16687 16688 16692 17342 17343
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RASEMGI2 00004 001 00CFD0 17641 17625
RASFCHID 00001     000005 17480 16653 17286
RASFETCH 00004 001 00CF2A 17581 17525
RASFIN   00001     000008 17466
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RASFTCH1 00004 001 00C43C 16681 16672 16674
RASHION  00001 001 00D070 17697 16735
RASHQPTR 00004 001 000824 00487 17088 17096
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RASIOTST 00001 001 00C4F2 16742
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RASLDEQ  00001     000004 17404 17529
RASLEMIO 00001     000040 17398 17523
RASLEXIT 00001     000010 17401 17514
RASLFTCH 00001     000020 17400 16651 17689
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RASLINKA 00004 001 000768 00418
RASLIO   00001     000080 17397 17521
RASLOG   00002 001 00C96A 17356 17151
RASLREGS 00001     000008 17403 17527
RASLREST 00001     0000C0 17399 17519
RASLTIME 00001     000001 17406 17533
RASLUPR4 00004 001 00C77A 17115 17108
RASLUPSV 00004 001 00C784 17117 17083 17113 17115
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
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RASMAXCT	00001		0000FF	29510	17624
RASMODEL	00001	001	00081B	00484	
RASMSG1	00001	001	00CA10	17424	
RASMSG2	00001	001	00CA11	17425	
RASNOTBY	00004	001	00D01C	17665	17654
RASPGQU	00004	001	00082C	00490	16510
RASPIK	00001	001	00172A	02089	
RASPTR	00001	001	00079B	00433	16477 16498 16934 18114 18128 19674 19980
RASPUB	00004	001	0038BA	04525	
RASPUB1	00002	001	0038D8	04534	
RASPUB2	00004	001	0038DA	04535	4531 4533
RASRCG	00008	001	00C938	17343	17344
RASREAD	00008	001	00C948	17345	
RASREC	00002	001	00C968	17355	
RASRES	00002	001	00C966	17354	16701 16966 16968
RASRESQ	00008	001	010168	23123	18115
RASRTSUC	00001		000080	17699	4184 4186 17028
RASRTYID	00001		000006	17481	4515 16733 17018
RASSAVA	00004	001	00C70C	17069	17062
RASSAVAR	00001	001	012038	23659	2091 17069
RASSIO	00001	001	00CFE0	17647	16719 16725 17637 17639
RASSIO1	00004	001	00CFE0	17648	17649 17661 17663 17671 17673
RASSYSIO	00002	001	00C4E6	16737	16734
RASTAB	00008	001	00C8E0	17315	0485 17509
RASTABA	00004	001	00081C	00485	
RASTAPSW	00001	001	00D071	17698	4184 4186 17028
RASTART	00004	001	00CEC0	17539	17520
RASTATAD	00004	001	000828	00488	0489 17024
RASTATFL	00004	001	000828	00489	
RASTIB	00002	001	00C922	17335	16655 16657 16663
RASTIC	00008	001	00C940	17344	
RASTIMER	00004	001	00CF84	17613	17534
RASTREG	00004	001	00CE9C	17527	17516
RASTSCAN	00001	001	00CE60	17508	17395
RASTTR	00004	001	00C8E0	17316	16684
RAST00	00001		0000E9	29520	16644
RAST10IO	00001		000020	17487	17149
RASUCSW	00008	001	00D072	17702	0488 17025 17026
RASUPR	00001	001	00C3C4	16641	6803
RASUPUB	00002	001	00D07A	17703	17027
RASWAITR	00004	001	00CECC	17545	17518
RASWTR2	00004	001	00CEE6	17554	17552
RASZERO	00001		0000E9	17501	16939
RAS230	00001		0000E6	17491	
RAS250	00001		0000FA	17492	
RAS30	00001		00001E	17490	
RB	00001		00000B	28432	0210 0655 0656 0657 0658 0659 0660 0662 0663 0664 0665 0666 0667 0668
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
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					14801 14971 15006 15021 15053 15067 15118 15411 15584 15585 15748 15752 16230 16312
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RBIT	00001		000004	29674	15910
RC	00001		00000C	28433	0951 0952 0954 0954 0968 0987 0988 0989 0989 0990 0990 0991 0992 0994
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RCBECB	00003	1FA	000005	27402	21727 21732 21752
RCBFLG	00001	1FA	000004	27401	21739 21763 21767
RCBIT	00001		000040	29614	
RCBLNG	00001		000007	29141	21780
RCBQUE	00001	1FA	000000	27399	21725 21762
RCCBA	00004	1D4	000004	28390	10182 10283 10402
RCCHHR	00005	1EE	00008A	27632	7535 7835 7841
RCFLD	00002	001	00A71C	13829	13786 14388
RCFLDP	00002	001	00A71A	14388	14317
RCOMPL	00001		0000FB	29087	9818 11568 11606 11658 11732 11772 11840 11865 12283
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
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RC0PFR	00002	001	00944C	12291	12228
RC12	00004	001	009726	12566	
RC12PFR	00001	001	009452	12293	12253 12255 12257
RC4	00004	001	00972E	12568	12396 12470 12475
RC8	00004	001	00972A	12567	12465 12476
RD	00001		00000D	28434	0763 0764 0765 0767 0768 0979 0980 0982 0988 0992 0993 0993 0996 1150
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RDCCW	00008	001	0017E0	02152	2133 2155 7521 7656 7837 7838 7839
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RDHOM	00001		00001A	29011	2145 6455 6469 6477 27463 27469
RDHOMAD	00008	001	0017B8	02145	2158
RDKYDATA	00001		00000E	29005	6600
RDMCKD	00001		00005E	29018	4079 6017 6022 6111 6115 6137
RDR81	00004	001	0035B2	04292	4287
RDR81T	00001		000020	29413	4284 4292
RDSCT	00008	001	0017F8	02156	
RDSECT	00001		000022	29446	2156 4297
RDYCALLS	00004	001	00E74E	20088	
RDYCNL	00004	001	00E78C	20120	
RDYCNLM	00004	001	00E768	20104	20175
RDYCNLS	00004	001	00E76E	20106	
RDYCNL0	00004	001	00E788	20113	20111
RDYCNL2	00004	001	00E794	20124	20126 20130 20132
RDYCNL3	00004	001	00E798	20125	20094
RDYCNL5	00004	001	00E790	20122	
RE	00001		00000E	28435	0722 0723 0725 0726 0727 0731 0737 0738 0739 0740 0741 0742 0743 0744
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                                  10-02-19

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                                  7655  7668  7669  7699  7700  7729  7735  7740  7743  7770  7783  7785  7793  7843
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                                 27274 27275 27280 27295 27296
REACTC   00001 001 0087BC 11142  6733
REACTEX  00001 001 0087C8 11146  6769
REACTP   00004 001 00AC0A 14292 14289
REACTPC  00001 001 00AC06 14290 12729
REACTPUC 00001 001 00ABFE 14287 11140 11149 12699 12737
REACTSW  00001 001 009D00 13035 12683 12686 12718
REACTUC  00001 001 0087B0 11137  6778
REACTX   00004 001 005FF2 06779  6735  6758  6760  6762
REACTY   00004 001 005FD4 06771  6742  6744  6748
REACTZ   00001 001 005FF8 06782  6730  6738
REACT1   00001 001 0098B2 12693 12687
REACT1V  00001 001 0098C8 12700 12696
REACT11  00001 001 00993E 12735 12719
REACT2   00006 001 0098DA 12707 12704
REACT3   00004 001 0098F6 12714 12711
REACT4   00004 001 0098EA 12711 12713
REACT5   00001 001 009938 12732 12723
REACT6   00001 001 009938 12730 12725
REACT7   00004 001 00989C 12687 12684 12691
REACT7C  00004 001 009898 12686 11145
REACT7UC 00004 001 009890 12683 11141
REACT8   00001 001 009938 12731 12721
REACT9   00004 001 009938 12733 12705
READ     00001 001 006472 07260  7235
READAR   00004 001 0030FC 03901  3895
READAR1  00004 001 003100 03902  3900
READB    00001     00000C 29003  4306  8530
READCNT  00001     000092 29022  2154  2169  4302  7293
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
READD    00004 001 00646E 07259  7294  7785  7845
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READHAR0 00004 001 004374 05782  5681  5699  5725
READRLD  00004 001 006A94 07838  7832
READR0   00001     000016 29009  6470
READY    00001     000083 29077  0761  0821  0832  1180  1194  1212  1214  1293  1353  1395  3656  3882  3901  4056
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                                11461 11548 11549 11671 12003 12053 12185 12186 12266 12267 12389 12674 14191 14332
                                14976 15081 15582 16125 16257 16930 18963 19430 19476 19511 19536 19575 19630 19677
                                20002 20131 20275 20366 20573 20596 21350 21567 21783
READYHQ  00004 001 003470 04192  4215
READYHQ1 00004 001 003476 04195  4207
READYHQ2 00004 001 00349C 04206  4197  4204
READYHQ3 00002 001 003494 04203  4199
READYHQ4 00004 001 00348A 04200  4210
READYLTA 00001     000003 29089
READYSYS 00004 001 001068 01353
READ1    00004 001 006478 07262
REAL     00001     000080 29690 12060 15829
REALAD1  00004 001 001182 01477  1470
REALMSK  00001     000002 29459  7490
REALNDP  00004 1DC 000004 28233 12636 27199 27201 28239 28240
REALORP  00004 1DC 000000 28232 12062 12633 20999 27199 27202 28238
RECAL    00001     000013 29008  6466 18552
RECALIB  00004 001 0041C6 05612  5595  5599
RECDERR  00001     000040 24520
RECDSF   00001     000020 24521
RECFINOK 00004 001 00B478 14750  1837
RECNO    00001 001 001704 02067 18599 18601
RECNR    00001 001 012346 23813
REDISFLG 00001 001 0123AA 23860
REENTRID 00001     000004 29347  0824  0995  1198  6841 18011 18707 20251 20982 21131
REGADR   00001 1E6 000000 27745  3750  3801  4396  4452  4521 18740 19270
REGSAV   00004 001 0112CC 23447  0390 24748 25507 25707 25816 26029 26138
REGSAVAR 00064 001 012248 23721
REG0     00001     000000 28536 15177 15177 15182 15265 15374 15441 15441 15443 15445 15451 15458 15458 15460 15462
                                 15475 15475 15477 15479
REG1     00001     000001 28537 15196 15198 15204 15211 15214 15215 15218 15218 15253 15254 15254 15356 15358 15361
                                 15372
REG15    00001     00000F 28548 15404 15404 15405 15405 15406 15406 15407 15407 15409 15517 15517
REISSGRR 00004 001 008990 11360 11305
REL      00001     0000D9 29675 15902
RELALL   00002 001 007720 09206  9535  9811  9900
RELALL1  00004 001 007728 09209  9215
RELALL2  00006 001 00773E 09216  9213
RELALL2A 00001 001 00775E 09223  9219
RELALL2B 00004 001 0077A4 09245  9239  9242
RELALL21 00001 001 007788 09237  9225
RELALL3  00004 001 0077B2 09249  9247
RELALL4  00002 001 0077BE 09252  9250
RELBLOCK 00002 001 0076A6 09146  8206  8209  8459  8906  9070  9081  9181  9243  9248  9251  9254  9412  9415  9567
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RELCCB1	00006	001	0076EE	09176	9174
RELCCB2	00004	001	007702	09183	9179
RELE	00004	001	00BEA8	15932	15903
RELFACT	00004	1EE	000064	27609	7547 7823
RELPAGE	00004	001	00BD20	15825	22684
RELPHASE	00001		000040	29270	7400 7503
RELTCB	00006	001	007500	08987	8415 9513 9520 9537
RELTCBNS	00004	001	007506	08988	
RELTCB1	00004	001	00750A	08989	8995
RELTCB2	00006	001	007522	08996	8991 8993
RELTCB3	00004	001	007534	09000	8998
REL1	00004	001	0076A8	09147	9150
REL2	00006	001	0076B6	09151	9148
REMOVE	00004	001	009B6E	12899	12181 12815 13104 13126 13288 13297 13776 15914 16071
REMPX	00001	001	00DC42	18947	4377 4485 18874 18875 18895 18922
REPBPT	00002	1D4	000042	28400	9751 10174 10262
REPCCB	00016	1D4	000018	28397	10136 10138 10282
REPCCWS	00024	1D4	000028	28398	10141 10146 10297 10301
REPCHECK	00004	001	0031F2	03980	3977
REPDCB	00004	1D4	000014	28396	10295 10422
REPDIDAL	00004	1D4	000010	28395	8916 10008 10294
REPFPT	00002	1D4	000040	28399	8117 10125 10140 10163 10296 10315
REPLCLC	00006	001	007F26	10333	10155 10166
REPLCNT	00001	1D4	00000D	28393	10121 10123 10133 10135 10171 10173 10412
REPLCR	00001		000002	28933	9071 9078 10112 10169 10188 10274 10330 10456 10458
REPLICA	00001	1D4	000000	28388	8117 8915 9751 10007 10116 10125 10163 10174 10253 10262 10315
REPLMVC	00006	001	007F2C	10334	10307 10318
REPNEXT	00004	1D4	000044	28401	10159 10310
REPPIK	00001	1D4	00000C	28392	10285 10409
REQCAN	00001		000010	29221	3898
REQFF	00001	001	00338A	04122	4093 4096 4099 4102 4105 4113 4117
REQFF1	00001	001	0033AC	04131	4124 4126 4128
REQID	00001	1F6	000004	27443	4027 4033 4057 4127 4233 4468 4513 4651 4752 4808 4824 4849 5988 6248
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REQKEY	00001	001	012450	24031	
REQLTA	00001		000004	29220	
REQMASK	00001		0000F0	29407	18521
REQPTA	00001		000040	29223	1663 1679 3902
RESA1	00004	001	009374	12197	12140 12151 12152 12153 12188 12321 12324 12488 12491 12608 12611 12948 12952 13172
					13175
RESA2	00200	001	0091C4	12118	12055 12056 12082 12096 12103 12106
RESA3	00004	001	0089E0	11385	11364 11367
RESCHQ	00001	001	010158	23120	
RESCPOS	00004	001	004658	06022	6014
RESERVT	00001	001	00D322	18109	4165 18100 18110 18112 18114 18116 18118 18308
RESERVX	00002	001	00D332	18122	4160 4163

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
RESET    00001     0000B3 29565 16955
RESETHQ  00002 001 0034AC 04211  4189
RESETPT  00004 1EE 000050 27597  7899 12018 12021
RESET44  00004 001 001454 01782  1777
RESFCH   00002 001 00905E 12002 11676 11682 13010 14187
RESGETR  00004 001 0089E8 11387 14225
RESHADB  00002 001 008952 11340 11312 11328 11330
RESIRST  00001 001 00D3B0 18167  4150 18141 18168 18169 18174 18532
RESNFBTS 00002 001 008BEC 11613 11579 12286 12659
RESPFIX  00004 001 009820 12646 14227
RESPF1   00004 001 009868 12670 12534 12560
RESPF2   00004 001 00987E 12676 12649
RESPHO   00004 001 0087D0 11157  1237  1517 10833 10977 20536
RESPHO1  00001 001 008F96 11941 11163
RESTART  00004 001 006B62 07902  7895
RESTARTA 00004 001 00CA08 17420
RESTARTP 00002 001 00CA0C 17421
RESTFIX  00006 001 0090A0 12021 12017
RESTORID 00004 001 008348 10821 10822
RESTT    00006 001 00EF48 21050  1240
RESVC    00004 001 000FDC 01293 14790 14792 19133 19156 19169 19172
RESVCID  00001     000010 29350 20304
RESVCNOX 00002 001 000FD6 01291  1306 15054 20318 21745
RESVCX   00002 001 000FE0 01294  0961  1305  6902  6905 18107 18215 18268 19715
RESVPWR  00004 001 00D420 18213 18210
RESWID   00004 001 00897E 11354
RESXTAB  00001 001 00D334 18123  4164
RES2     00001     0000F0 29625
RET      00004 001 00BED8 15946 15830 15843 15894
RETAB    00008 001 0008E6 29041  0820  6660 10967 11042 11049 11670 12387 12673 14091 14331 15048 15581 29042 29043
                                29044 29045 29046 29047 29048 29049 29050 29051 29052 29053 29054 29055 29056 29057
                                29058 29059 29060 29061 29062 29063 29064 29065 29067 29068 29069 29070 29071 29072
                                29073 29074 29075 29076
RETADDR  00004 001 0096A6 12528 12398
RETC     00001 001 00BF0A 15961 15826 15893 15922 15926 15928 15949
RETCODE  00001 001 001140 01449  1478  1512  1531  1745  9562 12578
RETC2    00004 001 00BE84 15922 15846
RETC4    00004 001 00BE90 15926 15869 15871
RETC8    00004 001 00BE98 15928 15890 15900
RETDEACT 00004 001 0014F0 01856  1827
RETREACT 00001 001 009946 12738 11144
RETREG   00001     000006 28542 15412
RETRYCD  00001     0000B3 29573
RETRY01  00004 001 0041D6 05624  5537  5866  5900  5928
RETRY10  00004 001 0041DE 05627  5570  5686  5870  5881  5897  5906  5918  5958  6094
RETRY256 00001     0000FF 29515
RETURN   00006 001 005F12 06718  6704  6712  6827
RETURNP  00001 001 00A9BE 14048 13981
RETURPAR 00001     000010 23871
RET0     00001 001 00BA66 15408 15329 15397
RET12    00004 001 00BA5A 15405 15178 15183 15240 15357 15359 15364
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

RET16    00004 001 00BA56 15404 14998 15350 15376 15378
RET4     00004 001 00BA62 15407 15541 15559
RET8     00004 001 00BA5E 15406 15531
RF       00001     00000F 28436  0682  0686  0705  0708  0756  0759  0770  0898  0912  1021  1062  1067  1255  1257
                              1258  1259  1268  1271  1281  1283  1288  1409  1413  1421  1421  1424  1434  1435
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                              1861  3744  3747  3748  3748  3749  3750  3767  3768  3774  3775  3783  3797  3797
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                              4076  4077  4078  4086  4095  4097  4104  4182  4183  4248  4312  4314  4318  4327
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                              5993  5993  5994  6003  6012  6013  6019  6019  6024  6041  6044  6046  6052  6055
                              6073  6073  6076  6076  6077  6082  6083  6084  6084  6085  6088  6089  6098  6105
                              6106  6136  6144  6146  6146  6149  6150  6153  6183  6184  6185  6208  6210  6210
                              6215  6231  6247  6259  6283  6285  6304  6311  6341  6398  6801  6802  7056  7066
                              7067  7068  7069  7072  7094  7095  7100  7130  7375  7584  7585  7652  7652  7658
                              7768  7768  7874  7874  8140  8170  8171  8178  8387  8417  8970  8971  8971  8973
                              8992  9044  9054  9056  9067  9074  9085  9093  9099  9104  9114  9287  9495  9514
                              9521  9538  9558  9581  9584  9587  9595  9598  9645  9649  9706  9718  9748  9757
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                             19955 19969 20007 20008 20012 20014 20018 20075 20113 20201 20530 21368 21368 21393
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                             21679 21679 21690 21690 21894 21901 21954 21957 21990 22007 22013 22088 22133 22226
                             22267 22274 22275 22282 22284 22286 22325 22375 22386 22427 22429 22447 22450 22451
                             22465 22467 22497 22550 27115 27117 27271 27272 27275 27276 27280 27281 27282 27296
RFBOMT01 00001     000001 24524
RFBOMT05 00001     000002 24523
RFBUILT  00001     000004 24502
RFCHIDC  00003 001 013801 24547
RFCHMAP  00001 001 013800 24546
RFCREATE 00001     000008 24501
RFDCONST 00002 001 0137E6 24538
RFEREP   00001     000001 24515 17550
RFEREPK  00001 001 0137FB 24544
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
RFEVA     00001     000008 24512
RFEVARTH  00001 001 013804 24548
RFEVAWTH  00001 001 013805 24549
RFEXIT    00002 001 0137E2 24534
RFEXIT0   00001 001 0137E2 24535
RFEXIT1   00001 001 0137E3 24536
RFFLAGS1  00001 001 0137D8 24495
RFFLAGS2  00001 001 0137D9 24506 17550
RFFLAGS3  00001 001 0137DA 24517
RFFLAGS4  00001 001 0137DB 24525
RFFLAGS5  00001 001 0137DC 24527
RFFULL    00001     000080 24497
RFHDRCH   00004 001 0137FC 24545
RFIPL     00001     000020 24499
RFIRULT   00001     000010 24522
RFLAG     00001     000001 28934  8393  8436  8453  8744  8770  8780  9065  9071  9073  9078  9238 10188 10456
RFMCONST  00002 001 0137E4 24537
RFNO      00001     000010 24500
RFNOFN    00001 001 0137DD 24528
RFOCONST  00002 001 0137E8 24539
RFPTAOWN  00001     000002 24514 17550
RFP2ENT   00004 001 013808 24551  1591 18337
RFP2ENTL  00002 001 013806 24550
RFP2ITAB  00002 001 01380C 24552  1590 18336
RFRDE     00001     000040 24498
RFRDSW1   00001 001 0137E0 24532
RFRDSW2   00001 001 0137E1 24533
RFREADY   00001     000001 24504
RFRECADR  00004 001 0137F0 24542
RFRECLEN  00002 001 0137EA 24540
RFRECTYP  00001 001 0137DE 24529
RFREL     00001 001 0137DF 24530
RFRESB1   00001     000002 24503
RFRNW     00001     000001 24526
RFRTAOWN  00001     000004 24513
RFSEEK    00007 001 0137F4 24543
RFTABAD   00004 001 00075C 00414  1582 17548 18328
RFTABLE   00001 001 0137D8 24494  0414  1583 17549 18329
RFTIMEA   00004 001 0137EC 24541
RFWTAB    00004 001 008972 11350 11344
RHA90     00004 001 004380 05785
RHHR      00002 1EE 00008C 27634  7533
RID       00002 001 00087E 00518  0824  0853  0888  0995  1007  1135  1137  1198  1304  3794  3837  3967  6648  6692
                                  6720  6837  6841  9113 10813 10814 10821 10831 10848 10850 10918 10952 10954 10962
                                 10963 11008 11010 11041 11718 11722 11873 11877 12052 12386 15569 16487 18008 18011
                                 18306 18707 18728 20251 20304 20982 21131 21349 21566 21782
RLDADDR   00003 1EE 000071 27614  7759
RLDEXIT   00004 001 006B16 07873  7851  7860
RLDSW     00001 1EE 000070 27613  7522  7548  7732  7746  7757  7831  7840  7869  7871 12015 27615
RLOOP     00002 001 00895C 11343 11348
RMBASE    00004 001 00089C 00533 20657 22704
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
RMSAE     00001     0000AE 29471  3831 14776 19819 19891
RMSBIT    00001     000001 17500 16671
RMSDERR   00001     0000E2 29468  5670  6300  6324
RMSDERR2  00001     0000E3 29469  5667  6245  6288  6297  6308  6314  6322  6334  6386 19973
RMSD00    00001 001 004206 05647  5600  5616  5628  5818  5875  5954
RMSD10    00001 001 004228 05660  5652
RMSD12    00004 001 004238 05665  5658
RMSGETP2  00004 001 001292 01581  4039  4496  5653  5810  5842 17049 18468 19255 19848
RMSGNOHQ  00004 001 0012A8 01588  1586
RMSROPEN  00001 1DB 000087 28300 14522 14530
RMSROPN   00001 001 0006D7 00351
RMSSAVE   00004 001 0012C0 01594  1581  1592
RMSSTAT1  00002 001 001658 02020 19831
RMSSTAT2  00002 001 00165A 02021 19860
RMSTF     00001     0000AF 29472 14764 19894
RMSTPER   00002 001 001656 02019  3835
RMST02    00004 001 00D75C 18492 18472 18485
RMST02A   00001 001 00D73A 18481 18477
RMST05    00004 001 00D76C 18496 18513 18515
RMST10    00004 001 00D77C 18501 18491
RMST15    00004 001 00D792 18506 18504
RMST20    00004 001 00D7A2 18510 18508
RMST35    00004 001 00E54A 19848
RMSUSE4   00001 001 00D59E 18343 18327
RMSWTR    00002 001 001654 02018 14783 14783
RNFBIT    00004 001 00985E 12666 12664
RPOSTP    00004 001 00AC5A 14324 14288
RPOSTPX   00001 001 00AC5A 14323 14319
RPSCCW1   00008 001 0017B0 02144  7234
RPSCCW2   00008 001 001768 02128  7462
RPSDASD   00001     000004 28671
RPSETCCW  00001 001 00668E 07453  7770  7783  7843
RPSNOCC   00001     0000BF 29447  7460
RPSRDCNT  00004 001 0035DE 04304  4301
RPSSSECT  00001 001 001808 02161  7228  7455
RPSTIC    00008 001 0017E8 02153  7749  7773
RPSTIC1   00001 001 001800 02157  7232
RPSTIC2   00001 001 001804 02159  7459
RPSWS     00001 001 0066A6 07461  7457
RPSYSF    00004 001 00D8CE 18609 18606
RQBASE    00004 001 006B7C 08117 10115 10260 10327 10411 12146 14083
RQHDRT    00004 001 01DCFC 27103  8117
RQTCNT    00002 001 00E1B6 19442 19290 19398
RQTE      00001 1D3 000000 28403 19292 19400
RQTFLAGS  00001 001 00E1B8 19443 19288 19314 19319 19330 19416 19419
RQTNEXT   00001 1D3 000004 28405 19307 19410
RQTOVFLW  00001     000040 28408 19314 19319 19419
RQTPUB    00004 1D3 000000 28404 19294 19305 19305 19402 19402 19407 19415
RQTTAB    00004 001 00E1BC 19445 19291 19399
RQTWTD    00001     000080 28407 19288 19330 19416 19419
RR        00001 1EE 00008E 27635  7528  7542
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
RRCTR    00002 001 00A754 13839 13665 13667 13684 13684 13721 13727 13727
RRPHO    00004 001 00900C 11977 11947 11958 11963 11969
RSENS    00001     000004 28999 18492 19446
RSETCCWT 00004 001 009C2C 12964 12959
RSLOOP   00004 001 008912 11319 11323
RSS      00001 1EE 000096 27643  7536  7544  7836  7842  7844
RSTERA   00004 001 008008 10470 10451 10468
RSTKYBD  00001     000002 24011 24326
RSTRPL   00004 001 007FC4 10451 10413
RSTRPL1  00004 001 007FD0 10454 10457 10459 10467
RSTRPL2  00004 001 007FD4 10455 10453
RSTRPL4  00004 001 008000 10468 10455
RSTRTPF  00004 001 009788 12596 12586
RSTSAVE  00004 001 00EEAE 20991  1247 20983
RSTSAVE1 00004 001 00EECE 21001 20998
RSTSV44  00004 001 001438 01770  1798 12972
RSTSYNCH 00004 001 00EE9C 20982  0981
RSZMSG   00004 001 01DDE2 27172 27137
RSZOK    00004 001 01DDE6 27173 27134 27171
RTA      00008 001 00CA78 17447 16647 17345 17450 17581
RTAB     00001 001 00ACFC 14390 13826
RTAENTRY 00008 001 00CA82 17450
RTAID    00001 001 00C964 17352  4515 16653 16733 17018 17286
RTAINC   00001     000020 17456
RTAIOA   00001     000001 17461  3781 16662 16959 17259 17682
RTAOWN   00001 001 00C957 17347 16644 16654 16939 17054
RTARETRN 00004 001 00D058 17689 16743 17555 17570 17577 17600 17610 17617 17640 17645
RTARETR2 00004 001 00D06A 17694 17690
RTDQU    00001     000001 14386 14072 14265 14270 16270
RTHIGH   00002 1DD 000008 28225
RTL      00002 1DD 000004 28224 13403
RTMASK   00001 001 00A70A 13817 13648 13662
RTN3330  00001 001 0044AC 05892  5851  5853  5855
RTN3340  00001 001 00442C 05856
RTN3340N 00001 001 004478 05877  5872
RTRN     00001 001 006200 07006  6993  7004
RTSW     00001 001 00ACFB 14376 14072 14265 14270 16270
RTYERR   00001     000004 28619  5131
RUR      00004 1E9 000000 27703 21924 21925 21938 21944 22405 22440 27715 27717
RURADR   00001 1E9 000000 27702 21829 22129 22459
RURE     00001     000002 27707
RURFLAGS 00001 1E9 000000 27704 21909 21926 21994 21998 22420 22421 22442 22460 22463
RURJC    00001 1E9 000001 27710 22409 22412
RURLEN   00001     000004 27715 22000 22205 22207 22278 22328 22441 22482 22484
ROWN     00002 1E9 000002 27713 21951 22003 22130
RURRESN  00008 1E9 000004 27716 21972 22283
RURS     00001     000004 27706 22390
RURTAB   00004 001 012E58 24351  1995
RURW     00001     000010 27705 21994 21998 22420 22442 22460 22463
RURX     00001     000001 27709 21926 22390
RV1FLG   00001 001 0015D3 01954  1955
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
RV2FLG	00001	001	0015D6	01957	1958
RV3FLG	00001	001	0015DA	01961	1962
RV4FLG	00001	001	0015DB	01962	1963
RV5FLG	00001	001	0015DC	01963	1964
RWAIT	00001	001	008568	10999	8413 9124 11375 12332 12503 12522 15117
RZ	00002	001	001650	02016	1678
R0	00001		000000	28421	0210 0655 0656 0657 0658 0659 0660 0663 0664 0665 0666 0667 0668 0669
					0670 0671 0672 0673 0674 0675 0676 0677 0678 0689 0690 0691 0692 0693
					0694 0695 0696 0697 0699 0700 0733 0758 1020 1026 1033 1073 1080 1146
					1148 1318 1319 1324 1325 1384 1391 1398 1463 1465 1467 1469 1471 1474
					1515 1515 1522 1525 1555 1561 1569 1719 1722 1729 2130 2130 2133 2133
					2143 2143 2147 2147 2148 2148 2153 2153 2156 2175 2175 2176 2179 2179
					3811 3812 3841 3842 4257 4283 4283 4294 4316 4401 4414 4680 4682 4683
					4688 4689 4755 4771 4778 4937 4937 4941 4942 4946 5050 5051 5052 5054
					5213 5286 5518 5518 5527 5528 5531 5532 5981 5982 6070 6474 6474 6478
					6478 6602 6602 6603 6603 6645 6703 6711 7001 7221 7321 7322 7329 7329
					7371 7380 7382 7382 7383 7385 7386 7419 7442 7475 7477 7480 7482 7539
					7541 7541 7542 7544 7546 7574 7574 7592 7601 7877 7881 8590 8593 8632
					8641 8886 8943 9032 9453 9551 9560 10122 10154 10165 10172 10306 10317 10770
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					14972 14982 15025 15025 15026 15032 15053 15060 15061 15061 15062 15063 15068 15092
					15093 15093 15094 15095 15100 15235 15349 15349 15394 15395 15395 15748 15999 16017
					16106 16111 16115 16146 16153 16160 16312 16420 16483 16519 16520 16521 16522 16523
					16524 16525 16526 16642 16702 16992 17048 17264 17510 17511 17615 17628 17651 17694
					17705 17819 17836 17849 17849 17872 17878 17906 17912 17924 17936 18204 18258 18518
					18518 18622 18885 18885 18886 18888 18919 18932 19118 19168 19235 19473 19473 19480
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					19802 19838 19858 19865 19873 19990 20073 20073 20234 20280 20280 20283 20344 20389
					20412 20415 20416 20424 20425 20426 20426 20427 20428 20429 20430 20447 20448 20584
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					21042 21042 21127 21211 21211 21217 21217 21219 21779 21916 21937 21958 22211 22214
					22218 22382 22395 22414 22415 27133 27138 27139 27141
R1	00001		000001	28422	0211 0706 0706 0796 0796 0800 0804 0807 1231 1376 1390 1406 1415 1417
					1418 1448 1459 1463 1468 1468 1469 1477 1480 1511 1530 1602 1618 1661
					1744 1822 1837 1838 1839 1858 3786 3786 3808 3818 3838 3914 3914 4052
					4054 4219 4224 4224 4266 4536 4536 4649 4649 4750 4750 4822 4822 4847
					4847 4862 4862 4894 4894 4922 4922 4985 4985 5037 5042 5043 5045 5046
					5048 5049 5058 5112 5112 5114 5124 5124 5211 5212 5254 5254 5269 5509
					5509 5649 5649 5978 5984 5994 6003 6005 6005 6034 6035 6035 6065 6068
					6077 6081 6081 6092 6093 6093 6096 6099 6102 6107 6108 6108 6119 6120
					6120 6221 6221 6232 6232 6353 6370 6387 6540 6546 6553 6573 6664 6979
					6980 6986 6987 6991 6998 7002 7083 7131 7132 7134 7138 7139 7228 7232
					7234 7262 7320 7320 7321 7322 7328 7332 7333 7335 7337 7341 7344 7364
					7381 7387 7428 7443 7444 7445 7447 7455 7459 7462 7467 7475 7476 7476
					7477 7479 7483 7488 7501 7540 7545 7558 7561 7561 7570 7586 7599 7603
					7619 7637 7737 7739 7748 7749 7762 7764 7878 8133 8228 8229 8230 8233
					8235 8891 8909 8910 8936 8940 8947 8956 8957 9044 9045 9051 9054 9056

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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
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					9552 9559 9581 9595 9598 9645 9649 9657 9658 9658 9660 9706 9711 9712
					9714 9715 9715 9717 9718 9748 9757 9768 9779 9802 9810 9833 9886 9990
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					12050 12051 12116 12235 12237 12246 12339 12342 12342 12397 12402 12405 12407 12424
					12424 12577 12689 12692 12698 12734 12752 12753 12754 12755 12756 12768 12789 12801
					12811 12828 12831 12834 12838 12841 12884 13052 13062 13069 13088 13089 13089 13090
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					13326 13329 13330 13344 13345 13356 13371 13386 13397 13423 13424 13428 13430 13431
					13610 13611 13612 13613 13616 13622 13623 13635 13702 13742 13757 13761 13762 13764
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                                 18047 18066 18069 18071 18076 18079 18301 18302 18305 18307 18308 18312 18313 18350
                                 18360 18420 18425 18436 18451 18452 18458 18473 18474 18475 18482 18483 18604 18638
                                 18706 18710 18759 18760 18761 18764 18766 18768 18861 18925 18964 18969 19098 19099
                                 19165 19246 19247 19398 19411 19436 19475 19478 19481 19534 19574 19673 19673 19674
                                 19675 19676 19676 19677 19679 19681 19682 19688 19757 19757 19770 19854 19855 19858
                                 19868 20003 20004 20017 20093 20120 20124 20170 20171 20172 20184 20186 20188 20190
                                 20192 20200 20235 20242 20697 20699 20701 20739 20769 20792 20793 20902 20902 20907
                                 20913 20917 20918 20919 21229 21259 21260 21261 21293 21354 21414 21438 21513 21520
                                 21539 21577 21609 21614 21638 21641 21645 21647 21649 21680 21691 22009 22075 22079
                                 22079 22081 22083 22085 22085 22086 22087 22114 22116 22123 22280 22281 22532 22535
                                 22538 22540 22546 22547 22548 27256 27257 27258
SACONST  00004 001 00A7CC 13866 12775 27277
SADCON   00004 001 006AD6 07853  7868
SAMETASK 00004 001 005E92 06681  1427 20324 21729 21758 21765
SAVCCBQ  00004 001 0080A0 10590  9045  9227  9394  9441  9660  9712  9991 10430 10516
SAVCCBQH 00002 001 01DD14 27107 10590
SAVCONT  00002 001 00E882 20235 20232
SAVE     00004 001 0092D4 12153 12194
SAVEDAY  00004 001 001564 01905 14574 14612
SAVEDQ   00001     000004 28909  8889  9230  9398  9989 10183 10403 10444
SAVELL   00004 001 00A758 13841 12694 12728 12733 12736 13644 13650 13702 13742
SAVELL10 00004 001 00A788 13843 13757 13787 14077 14087
SAVELL3  00004 001 00A77C 13842 13794 13814
SAVELOG  00007 001 012396 23852
SAVERD   00004 001 00084C 00507  0763  0768
SAVERE   00004 001 0016F8 02063  1700  1741
SAVEREGA 00004 1FE 000068 27368  8409  8760  9120  9125  9813  9830  9883 10460
SAVEREGB 00004 1FE 00006C 27369  9102  9540
SAVEREGC 00004 1FE 000070 27370  8987
SAVEREGD 00004 1FE 000074 27371
SAVEREGE 00004 1FE 000078 27372  8976  9531
SAVEREGF 00004 1FE 00007C 27373
SAVEREG2 00004 1FE 000048 27366  8387  8974  8975  9000  9904
SAVEREG9 00004 1FE 000064 27367
SAVERID  00004 001 0084FE 10965 11013
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
SAVER4	00004	001	0016E4	02059	1698 1739 1822 1823 1858 1859 2060 2061
SAVER8	00004	001	0016F0	02062	1699 1740
SAVE1	00004	001	0067AC	07572	7558 7570
SAVE12	00004	001	009ED8	13207	13187 13204
SAVE2	00004	001	009ED0	13206	12853 13164 13169 13183
SAVE9	00004	001	009CDC	13022	13240 13248
SAVFPF	00004	001	00902C	11992	11582 13052 13062 13069 13097 13120 13132 13140 13517 13531 13546 13571 13580 13599 13610 13635
SAVMPXR3	00004	001	00DC40	18945	4384 4696 18882 18886 18893 18924 18927
SAVOLDP	00008	001	012240	23720	
SAVRAID	00001	1EE	0000D4	27647	11024 11035
SAVRG1	00004	1E6	000004	27747	
SAVRG2	00004	1E6	000008	27748	3751 4457 4458 18777 19271
SAVRG3	00004	1E6	00000C	27749	3753 3804 4397 4480 18778
SAVSDAR	00004	001	0008CC	00551	0424
SAV2P1	00001	001	010610	23304	2337 8971
SAV2P10	00001	001	010D60	23385	2416
SAV2P11	00001	001	010E30	23394	2420
SAV2P12	00001	001	010F00	23403	2424
SAV2P13	00001	001	010FD0	23412	2428
SAV2P14	00001	001	0110A0	23421	2432
SAV2P15	00001	001	011170	23430	2436
SAV2P2	00001	001	0106E0	23313	2351
SAV2P3	00001	001	0107B0	23322	2365
SAV2P4	00001	001	010880	23331	2379
SAV2P5	00001	001	010950	23340	2393
SAV2P6	00001	001	010A20	23349	2400
SAV2P7	00001	001	010AF0	23358	2404
SAV2P8	00001	001	010BC0	23367	2408
SAV2P9	00001	001	010C90	23376	2412
SBAORD	00001	001	012E02	24336	
SBCONST	00004	001	00A7D0	13867	12777 27278
SBDY	00001	001	01D7C0	26575	26576
SBTDIR	00002	001	01482A	24631	
SCAN	00001	001	00905C	11993	13276 13291 13294 13302
SCANCHK	00002	001	00624A	07060	7057
SCANDE1	00004	001	00A900	13979	
SCANDE2	00002	001	00AA9E	14152	
SCANDIR	00001	001	0063B4	07201	7173
SCANDIR1	00004	001	0063F2	07217	7164 7203
SCANDIR2	00006	001	0063C4	07206	7215
SCANDIR3	00004	001	0063E6	07214	7210
SCANDIR4	00004	001	0063EE	07216	7207
SCANEQ	00001	001	00628A	07084	7079
SCANEQER	00004	001	006326	07136	7093 7101
SCANEQX	00004	001	00632A	07137	7091 7128
SCANEQY	00004	001	006334	07140	
SCANEQ1	00001	001	0062C0	07102	7098
SCANEQ2	00001	001	0062DA	07112	7104
SCANEQ3	00004	001	00630C	07127	7122 7125
SCANEQ4	00006	001	0062FE	07124	7114 7116 7120

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                    10-02-19

SCANFIN1 00004 001 00C15A 16220 16214
SCANFIN2 00004 001 00C180 16230 16211 16223
SCANHI   00002 001 00625C 07067  7078
SCANLINK 00006 001 00633A 07145  7013  7020
SCANLIST 00002 001 006234 07051  7005  7189
SCANLO   00004 001 00625E 07068  7081
SCANL1   00006 001 006354 07151  7148
SCANNT   00001 001 00ABC8 14257 14255
SCANPCIL 00004 001 006372 07169  7014  7019
SCANPGT  00004 001 00C130 16208  1233 20527
SCANSCIL 00001 001 006386 07178  7015  7018
SCANTRT1 00006 001 00ABEC 14272 13979
SCANTRT2 00006 001 00ABF2 14273 14153
SCAN1    00004 001 00626C 07073  7070
SCATHDIR 00002 001 014830 24634
SCATLDIR 00006 001 01482C 24632
SCBIT    00001     000040 29603
SCHKHE   00001     000069 29019  2141
SCHKHEMT 00001     0000E9 29029  2146
SCNADR   00004 001 000064 00241
SCNDEAC1 00002 001 00A88C 13941 13945 13947 13962
SCNDEAC2 00004 001 00A896 13944 13938
SCNDEAC3 00004 001 00A8D6 13962 13940 13952 13957
SCNDEAC4 00004 001 00A884 13939 13959
SCNDEAC5 00002 001 00A8EA 13969 13942 13964
SCNPSW   00004 001 000060 00240 27175
SCON2    00001 001 0006D7 00350  0351
SCPGQU   00001 001 00AA52 14117 14108
SCRFW    00001     000010 23864
SCRFW1   00001     000002 23874
SCRIMG   00001 001 01253D 24133 24002 24023 24024 24025
SCRIMGE  00001 001 012C8B 24246 24026
SCRIMG0  00004 001 012539 24130 24083
SCRNCTL  00002 001 0124E8 24086 24001
SCRREST  00001     000040 23862
SCRRET   00001     000020 23863
SCRSAVE  00001     000080 23861
SCTL     00002 001 01243C 24019
SCT1     00001 001 0124E8 24087
SCT10    00001 001 01250C 24105
SCT11    00001 001 012510 24107
SCT12    00001 001 012514 24109
SCT13    00001 001 012518 24111
SCT14    00001 001 01251C 24113
SCT15    00001 001 012520 24115
SCT16    00001 001 012524 24117
SCT17    00001 001 012528 24119
SCT18    00001 001 01252C 24121
SCT19    00001 001 012530 24123
SCT2     00001 001 0124EC 24089
SCT20    00001 001 012534 24125
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
SCT21    00001 001 012538 24127
SCT3     00001 001 0124F0 24091
SCT4     00001 001 0124F4 24093
SCT5     00001 001 0124F8 24095
SCT6     00001 001 0124FC 24097
SCT7     00001 001 012500 24099
SCT8     00001 001 012504 24101
SCT9     00001 001 012508 24103
SCU      00001     0000B0 29535
SCUST    00001     000010 29536
SCVBR    00001     0000F9 29449
SCVDEV   00001 001 00A394 13502  0465 13424
SCVPMGR  00004 001 00A2D8 13421
SCVRPSDV 00001     000004 29443
SCVRTBAL 00001 001 00D0B2 17812  7446 13429
SCVRTERR 00001 001 00D16A 17923 17862
SCVRTKAD 00001 001 00D11C 17870 17854 17856 17859
SCVRTNOK 00001 001 00D144 17894 17888
SCVRTOVH 00001 001 00D136 17885 17937
SCVRTP   00001 1E4 000000 27782 17848
SCVRTPDL 00002 1E4 000000 27784 17873 17876 17935 17936
SCVRTPDT 00001 1E4 000004 27788 17853 17855 17858 17861
SCVRTPKL 00001 1E4 000002 27785 17875 17887
SCVRTPRN 00001 1E4 000003 27786 17850 17871
SCVRTPVL 00001     000080 29438 17873 17935
SCVRTP00 00004 1E4 000000 27783
SCVRTP01 00004 1E4 000004 27787
SCVRTSV  00004 001 00D194 17966 17815 17823
SCVRTSV5 00004 001 00D19C 17967 17819 17820 17822
SCVRTTOT 00001 001 00D14E 17905
SCVRTVLR 00001 001 00D170 17934 17874
SCVRT00  00001 001 00D0CE 17831 17795
SCVTRTN  00001 001 00D0E0 17843 17821 17835
SCV3330  00001     000004 29439 17853
SCV3330B 00001     000005 29440 17855
SCV3340  00001     000008 29441 17861
SCV3350  00001     000007 29442 17858
SDAID    00006 001 008894 11250 11197
SDAIDIDN 00001     000040 28915  9806
SDBIT    00001     000080 29588 16431
SDCONST  00004 001 00A7D8 13869 12779 27279
SDLBUILT 00001     000040 29367  7115  7180
SDRDISK  00008 1E2 000010 27906 27911 27917 27923
SDRUNITR 00006 1E2 000006 27819
SDR2400  00010 1E2 000040 27966 27972
SDR3211  00006 1E2 000006 27834
SDR3420  00020 1E2 000040 27973
SDR3540  00008 1E2 000006 27826
SDR3886  00020 1E2 000006 27979
SEARCH   00001     000031 29015  2129  6456 27470
SEARCHA  00001     000039 29016  6473  7304  7306 27460
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

SEARCHFL 00005 001 001700 02065 18596 18602 18646 18647
SEARCHL  00004 001 00C0EE 16174 16178
SEARCHMT 00001     0000B1 29025  6601
SEBIT    00001     000080 29602 16506
SECITEM  00002 001 001570 01910 14733
SECTAREA 00001 001 0016D8 02054  2128  2144  2156  2162  7229  7289  7784  7787  7844  7847
SECTCAL  00002 001 00D0AC 17793  0468  0536  7445 13428 17794 17814 17818 22676
SECTFCH  00001 001 00667C 07441  7384  7543
SEEK     00001     000007 29001  2127  2138  4270  4272  6453  6468  6472  6599 18550 18632 27455 27459 27467
SEEKADDR 00004 001 00A2AE 13400 13340 13343 13370 13385
SEEKCCW  00008 001 001760 02127  2043  6544  7239  7274
SEEKCCW1 00008 001 001788 02138  7217
SEEKCHK  00001     000001 28967  5563  5800  5884
SEEKSLD  00008 001 005168 06599  6534
SEGVAL0  00004 001 0123AC 23879
SEGVAL1  00004 001 0123B0 23880
SEGVAL2  00004 001 0123B6 23884
SEIZE    00001     000040 29101  1191  1193 20274
SEIZEBND 00001     000073 29073  6831
SEIZEXIT 00004 001 005EA4 06686  1196 20277
SEIZRTRN 00004 001 005EA8 06687  6854  6860
SEKCHK   00004 001 0041B6 05608  5564
SEKCHK1  00004 001 0041BE 05610  5680  5683  5885
SELCHN   00001     000000 28656
SELECT   00001 001 00073D 00401  0683  0823  0872  0975  1297  1350  1361  1452  1652  1691  4112  4120  4870  4878
                                  5308  5359  6274  6655  6665  6666  6908  6920  7897 10946 10948 10950 11420 11501
                                 11513 11649 11660 11661 11699 11801 11925 11959 11967 12995 13539 14509 16026 16137
                                 16474 16717 16922 16924 16931 17626 17680 18051 18062 18144 18189 18291 19009 19015
                                 19237 19337 19421 19789 19875 19999
SELFREL  00001     000080 29269
SENSEBT  00001 001 0018A0 02214  4958
SERADD   00001 001 00E118 19383  3962 18413
SERADD1  00001 001 00E13A 19395 19389
SERADD2  00001 001 00E144 19401 19411
SERADD3  00001 001 00E154 19406 19403
SERADD4  00001 001 00E15C 19409 19405
SERADD5  00001 001 00E178 19418 19413
SERADD6  00001 001 00E17C 19420 19417
SERADD7  00002 001 00E1A2 19432 19422 19429
SERADD8  00004 001 00E1A8 19434 19385 19394 19408
SERADD9  00004 001 00E1AC 19435 19433
SERCCB   00002 001 00E1D0 19448 19354
SERCCW   00008 001 00E1C8 19446 19454
SEREPCDE 00001     0000E2 29519 16534
SERSCAN  00001 001 00E07E 19317
SERSCAN1 00001 001 00E07E 19318
SERSCAN2 00001 001 00E086 19321 19328
SERSCAN4 00001 001 00E092 19325 19323
SERSNS   00001 001 00E0C6 19348 19304 19324
SERSNSDA 00001 001 00E1E2 19459 19375
SERSNSDT 00003 001 00E1E0 19457 19446 19446
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
SERSNS1  00001 001 00E0C6 19349
SERSNS4  00001 001 00E112 19379 19374 19376
SERTASK  00001 001 00E028 19279  3962 18413 19281 23681 23685
SETADDR  00001 001 0068D8 07688  7711
SETADDR1 00004 001 0068D8 07689  7686
SETBACK  00001 001 007C28 09882  9107  9594  9794
SETBACK1 00004 001 007C5A 09897  9895
SETBALT  00001 001 005F12 06717  6707  6710
SETBSY   00004 001 00DAB0 18779 18775
SETCCW   00004 001 006890 07662  7658
SETDEFIX 00004 001 0089D6 11383 11373 11562 11603 11769 12275 12329 12496 12616 13181
SETEND   00004 001 006982 07757  7646  7730  7744
SETFBND  00001 001 008CAC 11688 11685
SETFCH   00001 001 006B3A 07892 12033
SETFLAG  00001 001 00702C 08498  8467
SETFLAGA 00004 001 00705C 08512  8506
SETFLAG0 00004 001 007062 08514  8511
SETFLAG1 00001 001 007068 08516  8503  8534
SETFLAG2 00004 001 00708A 08528  8501
SETFLAG3 00004 001 00709E 08533  8529  8531
SETJOBDT 00006 001 00B350 14619 14639
SETLT    00004 001 00E2AE 19539  0766  1152 19619 19633
SETNFB   00004 001 0088DC 11298 11293
SETNFFB  00001 001 0097A6 12605 12602
SETNFFB1 00004 001 0097C4 12613 12607
SETNOOP  00004 001 006500 07309  7305
SETPFA   00004 001 001200 01519  1516
SETPMGR  00004 001 006902 07700
SETPOIT  00001 001 00EFE4 21156 14422 21143 21153
SETPOITA 00004 001 00EFE8 21158  3578
SETPTENT 00004 001 00935C 12189 12155 12157
SETPTO   00004 001 006A46 07811  7797  7800
SETREL   00004 001 006770 07547  7502  7506  7538
SETRLD   00002 001 0066F6 07510  7504
SETSECT  00001     000023 29445  2128  2144 13421 18605
SETSLD   00004 001 0050CE 06533  6521  6523  6526  6529
SETSYSDT 00001 001 00B392 14652 14611 14636
SETSYSLP 00004 001 00B3AC 14660 14665
SETTBND  00001 001 00B7E8 15114 15123
SETTIC   00001 001 006952 07736  7750
SETUPSA  00001 001 008570 11002 11337
SET81    00004 001 0035BA 04294
SFM      00001     00001F 29014  6454  6476 27456 27462 27468
SGAM     00004 001 00B630 14901  0535 14901
SGAP     00002 001 00E722 20025  0531  0980  1202  1239  1246  3577  3603  3611  3673  6856 10922 14421 14860 14875
                                19502 20026 20661 21769
SGERP    00002 001 00E494 19778  0530  1681  1756  6808 19779
SGIOS    00002 001 00D1B4 17970  0527  3759  4695  6400 17267 17971
SGIOS2   00002 001 00DDCC 19076  0528 19082
SGPGM    00002 001 00E1E4 19463  0529  0765  1151  1274  1665 19464 19505
SGRM     00002 001 00F43A 21715  0533 20658 21716 21771
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

SGSVCX   00002 001 00B0F8 14398  0538 14401
SGSVCX2  00002 001 00B226 14505  0539  1835 14507
SGXECB   00002 001 00F0F6 21301  0532 21302
SHIFTFI  00001 001 00EBD6 20616
SIO      00001 001 00DA60 18741 18921 18934
SIOB     00001     000080 27520
SIX      00001     000006 29419
SIZEBITS 00001     000003 28969
SIZEDET1 00001 001 00E028 19284 19331
SIZEDET2 00001 001 00E02E 19289 19312
SIZEDET3 00001 001 00E036 19293 19308
SIZEDET4 00001 001 00E056 19303 19298
SIZEDET5 00001 001 00E060 19306 19296 19300 19302
SIZEDET6 00001 001 00E076 19313 19310
SIZEDET7 00001 001 00E09E 19329 19315
SKADA    00008 001 00A380 13499 13339 13369 13443 13445
SKADB    00008 001 00A388 13500 13342 13384 13449 13451
SKHEMT   00008 001 0017C0 02146  2143  2147
SKIP     00001     000010 29247  2145  4935  6045  6056  6455  6463  6477  8572 27463 27469 27472
SKIPABPR 00001 001 002E12 03608  3601
SKIPBAL  00004 001 00A8F8 13975 13971
SKIPHQ   00004 001 005F9A 06755  6752
SKIPVAL  00004 001 00BF30 16006 16000
SKPVALID 00002 001 00F034 21215 21212
SKSEP    00001     000001 28888 17294
SKVLPWR  00002 001 008F42 11914 11898
SLASH    00001     000061 29678  4312
SLD      00001     000040 29374 19663 19717
SLDCOMP  00004 001 005124 06560
SLDDIR   00003 1D7 000001 28362  6536  7202
SLDDONE  00004 001 0050FA 06544  6561
SLDLOOP  00004 001 0050EC 06541  6566  6570
SLDLOOP1 00004 001 00510C 06551  6541
SLDREAD  00008 001 005170 06600  6552  6603
SLI      00001     000020 29246  2129  2141  2146  2150  2152  2154  2167  2168  2169  2173  2174  2178  6027  6454
                                 6455  6463  6466  6469  6470  6473  6476  6600  6601  7661 18248 19446 27460 27469
                                27470 27472
SLINKDIR 00006 001 014832 24635
SLLADCON 00002 1DD 000014 28228
SMDAT    00001     000004 29323  6701 10942 19525 27175 27178 27180
SMTA     00003 1E0 000199 28116
SMXP     00004 1E0 000194 28114
SM3340   00001     000001 28409 19375
SNFIND   00004 001 009652 12498 12501
SNS      00001     000001 29200  4027  4233  4824  4849  4870  4878  5359 16990 18323 18418 18690 18909
SNSAGAIN 00004 001 003E24 05221  5228  5248
SNSALAST 00024 001 004000 05344  5262
SNSANEW  00004 001 003EC6 05267  5265
SNSAREA  00024 001 003FD0 05342  5218  5263  5266  5341
SNSBLOCK 00002 001 001718 02078  0431  4879  5256  5274  5363
SNSCCB   00002 001 003FB2 05332  5211  5269
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

SNSCCW   00008 001 003FC8 05341  4890  5217  5261  5267  5338
SNSCHNXT 00004 001 003F64 05311  5315
SNSCLOCK 00001     000023 28982  5962
SNSCURRT 00004 001 00401C 05347  5229
SNSDEACT 00001 001 003F56 05306  5328
SNSDISP  00001     000026 28983  5963
SNSDONE  00001 001 003EDA 05272  5223
SNSDONE2 00004 001 003EDE 05274  5237  5259  5271
SNSDVFRI 00001     000040 04624  5316  5321  5327  5329
SNSECC   00001     000028 28984  5978
SNSERR   00004 001 003F06 05285  5282
SNSERR2  00004 001 003F0E 05287  5280
SNSFLG   00001 001 0015CF 01950  1951  2078  5307
SNSINDHA 00004 001 003BC4 04911  4908
SNSINIT  00002 001 003A56 04783  4562  4621
SNSLOAD  00004 001 003F12 05288  5284
SNSLOOP  00004 001 003F3E 05300  5303
SNSMORE  00001 001 003F32 05296  5277  5317  5330
SNSNOFRI 00004 001 003FA2 05327  5320
SNSNOHQ  00004 001 003DF8 05210  5208
SNSNOHQ2 00004 001 003E78 05244  5242
SNSNORHA 00001 001 003BCC 04914  4910
SNSNPUB  00004 001 003F6C 05313  5326
SNSPIK   00001 001 00171A 02079
SNSPRIO  00004 001 003E92 05252
SNSPSCAN 00004 001 003F60 05310  5305
SNSPSW   00004 001 011FB0 23641
SNSPSWAD 00004 001 011FB4 23642
SNSPTR   00001 001 000799 00431 18110 18126
SNSRCVER 00004 001 003ECE 05269  5245  5255
SNSRESQ  00008 001 010158 23121 18111 18122
SNSSAVAR 00001 001 011FA8 23640  2081
SNSSENSE 00002 001 003E1E 05219  5286
SNSSTRTT 00004 001 004018 05346  5221  5231
SNSTASK  00004 001 003DE8 05206  4882
SNSUCPEN 00004 001 003F80 05318  5312
SNSUNCON 00004 001 003E00 05212  5212
SNSWAIT  00004 001 003E28 05222  5230  5234
SNSWAITT 00004 001 004024 05348  5233
SNSWAIT2 00004 001 003E42 05229  5226
SNSWORK  00001     000080 04623  4984  5304  5316
SNSXFLG  00001     00002B 28985  6121
SO       00004 001 0034DC 04228
SOB1     00001 1DB 000036 28260
SOB2     00001 1DB 000037 28261  4806  4810
SOFTPSW  00008 001 00C3B8 16548 16460 16722 16723
SP       00001     000002 29652 12169 12174 12264 12449 12816 12845 12889 13053 13105 13123 13127 13162 13545 13598
                                 13631 13773 13803 15899 16067
SPARMBG  00009 001 014618 24567  0342
SPARMF1  00009 001 0145F4 24563  3027
SPARMF2  00009 001 0145FD 24564  3099
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```
SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

SPARMF3  00009 001 014606 24565  3171
SPARMF4  00009 001 01460F 24566  3243
SPECHIO  00001     0000FF 28941 19129
SPEMPTY  00004 001 00A198 13315 13306
SPHOID   00004 001 008FD2 11959 11956
SPIBADR  00001 1ED 000000 27648  1359  4110  4876  6797 16256 16481 16502 16929 16938
SPIBAR   00001 001 0015CE 01949  0558
SPIBFLG  00001 1ED 000000 27649  1360  4111  4119  4877  6798  6799 16257 16482 16503 16930 16941
SPIK     00001 1E0 000198 28115 21454
SPLCOMP  00004 001 00D400 18202 18218
SPREFIX  00003 001 0015B1 01929 18977 18979
SPTHTIME 00004 001 000C20 00905
SPVECB   00001 001 00097C 00622 20365 20558 20560 20562
SPWL     00004 1E0 0001A0 28123
SRBIT    00001     000020 29590
SRCHCCW  00008 001 001770 02129  2130  2160
SRCHLOOP 00002 001 009C98 13000 13005
SRCHNAME 00008 001 00163C 02011  2141  2146  7219
SRCHQU   00004 001 009C90 12998 12957 12980
SRCHRPS  00001     000011 29448 18585
SRETADR  00004 001 009C6A 12985 12982
SRTABB   00004 001 00A4FA 13644 12798
SSACT    00001     000010 28684
SSEARCH  00004 1DA 000414 28331 15230 15279 15303 15314 15369 15432
SSLD     00002 001 01489C 24685 24629
SSLDDIR  00004 001 014824 24629
ST$$DET  00001 001 00EABE 20508 20474
STAB     00001 001 01D7C0 26576  0453 26577 27289
STARTPFR 00004 001 009384 12228 22669
STATMOD  00001     000040 28626  3968  4478  4486  4488 17660 17670 19155
STATPRTY 00002 001 00ED94 20852 20827 20828 20851
STBIT    00001     000001 29619
STCDIR   00002 001 014828 24630
STCLOCK  00004 001 00B268 14528
STDOPT   00001 1DB 00008C 28302
STEXC    00001     000010 29322 10797
STID     00002 001 00073C 00400 18029 18099 18307 19023
STK      00001 001 009D03 13038 12812 12814 13617 13619
STKSVE   00001 001 008744 11095 11555 11557 11569 11576
STMODE   00001     000093 29023  2173
STNOPG   00002 001 00AA86 14141 14136
STOP     00001     000010 29491 14005
STORADD  00004 001 00B258 14519 14516
STOREPC  00004 001 00F03E 21219 21216
STORERR  00001     0000EA 29601 16506
STORK    00001 001 00BF0B 15962 15909 15910 15911 15916 15943
STPADR   00004 001 00893A 11332 11317
STPFIXRS 00002 001 009468 12301 22675
STPFIXR1 00004 001 00949A 12314 12325
STPFIXR2 00004 001 0094C8 12326 12320
STRETCD  00001 001 001154 01458  1453
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

STRING   00008 001 005600 06607  0625
STRTIO   00004 001 00D9AC 18688  4499 17268 18419 18461 18493 18499 18522 18526 18541 18545 18549 18555 18576 18676
                            18960 18962 18968 18978 18998
STRTIO2  00006 001 00D9B0 18689  4489 18620 18624 18631 18649
STRTPFIX 00004 001 009500 12381 22668
STSCNLP1 00004 001 00A968 14020 14043
STSCNLP2 00001 001 00A990 14031 14027
STSCNLR5 00004 001 00A9B6 14044 14009 14040
STSW     00001     000010 28532 15004 15022 15039 15105
SUBCLASS 00001     0000E8 29587
SUBCLKHI 00002 001 00B2CC 14579 14577
SUBDAYHI 00002 001 00B2A4 14556 14554
SUBMIDHI 00002 001 00B294 14550 14548
SUBSAT   00001     000002 29488 20106 20454
SUBSVC06 00002 001 00E744 20073 20068
SUBTASK  00004 001 00ECBA 20740 20124 20699
SUPADDR  00001 001 0066C2 07481  7478
SUPBLOCK 00002 001 001740 02103  0437  6922  7905
SUPFLAG  00001 001 000830 00498  0900  0902  6715 10986 10988
SUPFLG   00001 001 0015D5 01956  1957  2103
SUPLINK  00003 001 00C9ED 17395
SUPPCK   00002 001 000B16 00786 10879 10956
SUPPIK   00001 001 001742 02104
SUPPTR   00001 001 00079F 00437 12010 14014 18116 18129
SUPRESQ  00008 001 010170 23124 18117
SUPSAVAR 00001 001 012158 23675  2106 23782
SUPVR    00001     000007 29206  0683  6920  7897 10948 11501 11662 12945 13002 13539 14184 29405
SU00     00001     000000 28137 28099
SU90     00001     000000 28138 28100
SVAELIG  00001     000020 29271
SVAIND   00001     000004 28552 15534
SVALOAD  00001     000010 29357  6977  7587
SVAPHASE 00001     000010 29272  7103  7559  7879 14983 15098
SVAREG   00001     00000D 28547 15157 15527 15528 15529 15530 15530 15542 15588 15744
SVCBASE  00004 001 000880 00526  0993 22699 22700 22701 22702 22703 22704 22705 22706 22707 22708 22709 22710 22711
                            22712
SVCCHAR  00001 001 00189F 02210  1382  2211
SVCCODE  00002 001 00008B 00255  0945  0952  0985 17997
SVCIC    00004 1EC 000007 27672  6974 19161 20770
SVCID    00001 001 00BF0C 15963 15772 15825 15902
SVCILC   00002 001 000089 00253
SVCINDEX 00004 001 000CF0 00987
SVCINF   00002 001 000088 00252  0253  0958  0973  1302
SVCINTC  00002 001 00008A 00254  0255  0987 20984
SVCOPSW  00001     000020 29302  0957  0972 11007 11518 16093
SVCPCINT 00001     000010 28452  0920
SVCTAB   00004 001 00F988 22599  0542  0985 27132
SVCTABND 00001 001 00FB14 22698  0985
SVC00    00002 001 00D3C4 18182 22600
SVC01    00002 001 00E1E6 19473 22601
SVC01A   00004 001 00E202 19482 19479
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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
SVC02	00001	001	00E20C	19492	1275 1666 22602
SVC02A	00004	001	00E24E	19513	19494 19510
SVC02B	00001	001	00E228	19500	19497
SVC02J	00001	001	00E234	19506	19499
SVC02K	00004	001	00E246	19511	19508
SVC02LTA	00004	001	00E20C	19493	
SVC03	00004	001	00DFAC	19235	22603
SVC03A	00002	001	00DFBC	19239	19236
SVC03B	00001	001	00DFFC	19260	19252 19254
SVC04	00004	001	00E2FE	19573	22604
SVC04RET	00004	001	00E304	19575	
SVC04R1	00004	001	00E318	19580	19578
SVC05	00004	001	00E496	19788	22605
SVC06	00001	001	00E724	20062	22606
SVC07	00004	001	00E88E	20251	22607
SVC08	00004	001	00E326	19592	22608
SVC088	00004	001	001224	01532	22687
SVC089	00004	001	00125A	01551	22688
SVC09	00001	001	00E342	19608	22609
SVC10	00001	001	00B12C	14426	22610
SVC11	00001	001	00E364	19627	22611
SVC12	00004	001	00E392	19649	22612
SVC12A	00004	001	00E3A2	19659	19656
SVC12B	00004	001	00E3C2	19667	19664
SVC12C	00001	001	00E3E6	19678	19672
SVC12FF	00001	001	00E478	19746	19725
SVC12NI	00004	001	00E406	19689	19662
SVC12SAV	00004	001	0016FC	02064	
SVC1213	00004	001	00E458	19725	19659 19707
SVC1213A	00004	001	00E46E	19741	19726
SVC13	00004	001	00E40A	19698	22613
SVC13A	00004	001	00E41A	19707	19704
SVC13B	00004	001	00E43C	19716	19710 19712
SVC13FQ	00001	001	00E479	19747	19722
SVC13OI	00004	001	00E454	19723	19716
SVC13TM	00004	001	00E450	19722	19711
SVC15	00001	001	00DCEA	19008	22615
SVC15A	00004	001	00DD52	19040	19042 19046
SVC15A0	00001	001	00DCFA	19013	
SVC15A1	00001	001	00DD1C	19022	19016 19018
SVC15A2	00004	001	00DD24	19025	19021
SVC15A3	00004	001	00DD3C	19032	
SVC15B	00004	001	00DD74	19051	19034
SVC15C	00004	001	00DDC2	19070	19039 19056 19058 19062 19064 19066
SVC15D	00002	001	00DDC6	19071	19044 19048 19054 19069
SVC15E	00004	001	00DD84	19055	19052
SVC15G	00004	001	00DDB6	19067	19060
SVC16	00004	001	00EF94	21099	22616
SVC17	00004	001	00EF9C	21109	22617
SVC18	00004	001	00EFCC	21143	22618
SVC19	00004	001	00EFD8	21153	22619

SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
SVC2WAIT	00006	001	000FAC	01278	0758 1148 19512 19609
SVC20	00004	001	00EFF8	21171	22620
SVC21	00004	001	00F000	21180	22621
SVC22	00004	001	00E8A4	20272	22622
SVC22A	00004	001	00E8C8	20283	20281
SVC22B	00004	001	00E8D6	20287	20284
SVC23	00004	001	00E47A	19755	22623
SVC24	00001	001	00B0FC	14408	22624
SVC24C	00001	001	00B1B0	14466	14437
SVC24E	00001	001	00B1C6	14474	14465 14472
SVC24E1	00001	001	00B1EA	14484	14481
SVC24F	00006	001	00B1D2	14478	14483
SVC24G	00004	001	00B192	14457	14451
SVC24H	00001	001	00B1F4	14489	14457 14469
SVC24H1	00006	001	00B200	14493	14499
SVC24H2	00004	001	00B21A	14500	14494
SVC24H3	00006	001	00B220	14503	14500
SVC24H4	00002	001	00B21E	14501	
SVC24K	00001	001	00B1B2	14468	14435
SVC24L	00004	001	00B178	14450	14456
SVC24N	00001	001	00B140	14432	14430
SVC25	00001	001	00DDCE	19079	22625
SVC26	00004	001	001052	01340	22626
SVC27	00004	001	00DDCE	19080	22627
SVC29	00004	001	00E8DC	20304	22629
SVC33	00001	001	001060	01344	0543
SVC34	00004	001	00B22A	14508	22635 24541
SVC34PP	00004	001	00B23A	14512	14510
SVC37	00004	001	00F01A	21200	22638
SVC38	00006	001	00E910	20338	22639
SVC38A	00001	001	00E984	20376	20362
SVC38B	00001	001	00E948	20354	20351
SVC38C	00001	001	00E958	20359	20356
SVC38D	00002	001	00EA12	20427	20431
SVC38E	00001	001	00EA64	20453	20442 20444
SVC38EX	00006	001	00E99E	20390	
SVC38F	00004	001	00E972	20369	20367
SVC39	00006	001	00EA6A	20473	20179 22640
SVC39A	00004	001	00EB4C	20565	20572
SVC39B	00004	001	00EB68	20572	20567 20570
SVC39C	00004	001	00EB70	20576	20559
SVC39E	00004	001	00EB30	20558	20545
SVC39LP	00002	001	00EBC2	20610	20615
SVC40	00002	001	00EC5E	20686	22641
SVC40B	00004	001	00EC66	20689	
SVC41	00004	001	00F478	21751	22642
SVC41A	00001	001	00F494	21761	21755
SVC42	00004	001	00F43C	21724	22643
SVC42A	00002	001	00F450	21731	21726
SVC42B	00002	001	00F460	21737	21733
SVC44	00002	001	00B466	14743	22645

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SYMBOL	LEN	ID	VALUE	DEFN	REFERENCES
SVC44FLD	00016	001	001705	02068	1770 1771 1825 1830 1830 14755 14765 14765
SVC44IDN	00001		000080	28914	1832 9806 14757 14767
SVC46	00001	001	00107E	01366	22647
SVC48	00001	001	001094	01387	22649
SVC5NM	00007	001	010260	23162	1678 1683 1684 19863
SVC50	00004	001	00402A	05359	22651
SVC51	00004	001	00E48A	19769	22652
SVC52	00001	001	00B532	14805	22653
SVC52A	00001	001	00B566	14820	14809
SVC52B	00004	001	00B560	14818	14813
SVC52C	00001	001	00B546	14811	14817
SVC52E	00002	001	00B5C2	14853	14815
SVC52F	00001	001	00B59A	14839	14833
SVC52G	00006	001	00B580	14831	14835
SVC52H	00001	001	00B596	14836	14830
SVC52K	00001	001	00B5C0	14851	
SVC56	00001	001	0010C6	01405	22657
SVC56RC	00004	001	001104	01422	1410 1414
SVC57	00001	001	00ED30	20822	22658
SVC57D	00001	001	00ED6E	20840	20824
SVC57D1	00004	001	00ED7E	20846	20843
SVC57LP	00004	001	00ED50	20832	20839
SVC57MVC	00006	001	00ED8E	20851	20849
SVC57RET	00004	001	00ED5C	20835	
SVC59	00002	001	001126	01432	1438 22633 22660 27128 27185
SVC59R	00004	001	01DF7E	27295	27185
SVC59SW	00001	001	00112C	01441	27182
SVC60	00002	001	00137E	01689	22661
SVC63	00004	001	00F4DC	21894	
SVC63C	00004	001	00F4E0	21901	21930
SVC63CA	00001	001	00F4E8	21905	21973
SVC63CTD	00002	001	00F4DC	21893	22664
SVC63C1	00004	001	00F58A	21966	21903
SVC63C2	00004	001	00F5A6	21975	21969
SVC63D	00001	001	00F512	21922	21918
SVC63E	00004	001	00F520	21928	
SVC63END	00001	001	00F64E	22034	22030 22032
SVC63F	00002	001	00F532	21937	21914
SVC63FA	00004	001	00F558	21949	21939
SVC63FB	00002	001	00F562	21952	21955 21959
SVC63G	00004	001	00F5AA	21976	21953
SVC63H	00004	001	00F5AE	21979	21933 21945 21947 21963
SVC63HA	00004	001	00F5C4	21985	21982
SVC63I	00002	001	00F5CA	21989	21984
SVC63IA	00002	001	00F5F4	22002	22018
SVC63IB	00002	001	00F5FA	22004	22008 22014
SVC63IC	00004	001	00F618	22016	22010
SVC63ID	00001	001	00F626	22020	21999 22005
SVC63S1	00004	001	00F650	22072	21954 22007
SVC63S1A	00001	001	00F670	22080	22077
SVC63S2	00004	001	00F686	22114	21957 22013

SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

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SVC63S2A 00001 001 00F6A2 22121 22117
SVC63S2B 00004 001 00F6B6 22127 22124
SVC63S2C 00002 001 00F6BA 22128 22120 22126
SVC6364D 00004 001 00F766 22268 22266
SVC6364E 00004 001 00F772 22271 22264
SVC6364F 00002 001 00F77A 22273 22270
SVC6364G 00004 001 00F782 22277 22258
SVC6364H 00006 001 00F796 22283 22285
SVC6364K 00001 001 00F7BA 22313 22309
SVC6364L 00004 001 00F7CE 22319 22315
SVC6364M 00004 001 00F7D6 22321 22318
SVC6364N 00004 001 00F7DA 22322 22312
SVC6364R 00001 001 00F740 22256 21901 22386
SVC6364V 00004 001 00F6C4 22177 21894 22375
SVC6364W 00004 001 00F718 22211 22179 22199 22497
SVC6364X 00001 001 00F73A 22222 22217
SVC6364Y 00001 001 00F7A6 22307 21990 22427 22447 22450 22465
SVC64    00004 001 00F7EC 22375
SVC64A   00004 001 00F7FC 22386 22491
SVC64AA  00002 001 00F7F0 22382 22498
SVC64ALL 00002 001 00F906 22495 20659
SVC64A1  00004 001 00F8CA 22470 22388
SVC64C   00002 001 00F812 22394 22385 22478 22486
SVC64CTD 00002 001 00F7EC 22374 22665
SVC64D   00002 001 00F816 22396 22393
SVC64DA  00004 001 00F82C 22405 22402
SVC64DB  00004 001 00F834 22409 22401 22404
SVC64E   00001 001 00F862 22430 22423
SVC64E1  00002 001 00F8A0 22452 22443
SVC64F   00004 001 00F8A2 22454 22438
SVC64G   00002 001 00F8D2 22474 22407 22410 22416 22432 22435 22461 22468
SVC64G1  00001 001 00F8EC 22483 22481
SVC64H   00004 001 00F8F8 22489 22475
SVC64S1  00004 001 00F912 22532 22429 22451 22467
SVC64S1A 00004 001 00F91A 22535 22549
SVC64S1B 00002 001 00F940 22547 22536 22539
SVC65C   00001     000041 29450
SVC66    00001 001 001132 01444 22667
SVC69    00004 001 00115A 01463 22670
SVC70    00002 001 00118A 01480 22671
SVC71    00004 001 0011F0 01513 22672
SVC76    00001 001 00DCE6 19006 22677
SVC77    00002 001 001212 01525 22678
SVC78    00006 001 00EE10 20933 22679
SVC79    00004 001 00EE4A 20953 22680
SVC79A   00004 001 00EE86 20970 20968
SVC80    00004 001 00EED8 21009 22681
SVC80A   00002 001 00EEDC 21011
SVC81    00004 001 00EF08 21027 22682
SVC81A   00002 001 00EF26 21035 21031
SVC81B   00004 001 00EF2C 21037 21034
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES

SVC81C   00004 001 00EF3A 21041 21036
SVC89    00004 001 00E35C 19618 19600
SVC90    00004 001 001264 01555 22689
SVC91    00004 001 001282 01569 22690
SVC91A   00004 001 001286 01570  1560
SVC92    00004 001 00F0F8 21347 22691
SVC92A   00004 001 00F162 21380 21382
SVC92AA  00002 001 00F13C 21368 21362
SVC92B   00004 001 00F166 21381 21379
SVC92CH  00001 001 00F2B4 21483 21358
SVC92DL  00001 001 00F1B4 21409 21360
SVC92DLA 00001 001 00F1F4 21430 21353
SVC92DLB 00004 001 00F2A6 21476 21433
SVC92EX  00004 001 00F194 21395 21405 21411 21485 21487
SVC92FD1 00004 001 00F1A2 21400 21369
SVC92FD2 00002 001 00F1AE 21404 21401
SVC92NRM 00006 001 00F1DE 21420 21416
SVC92OK  00002 001 00F192 21393 21425
SVC92RC8 00004 001 00F1AA 21403 21372 21413
SVC92RE  00002 001 00F1EE 21424 21419
SVC93    00001 001 00F2C2 21510 22692
SVC94    00001 001 00F2EA 21535 22693
SVC95    00001 001 00B5DE 14866  0540 22694
SVC95X1  00001 001 00B61A 14888 14880 14882
SVC96    00004 001 00EF78 21079 22695
SVC97    00004 001 00EF6C 21068 22696
SVDEACT  00004 001 001488 01822 14201
SVEARA   00001 1EE 000000 27570  0215  0740  0889  0924  1228  1363  1385  1423  1448  1457  1477  1511  1530  1696
                                 1744  1836  3646  3741  4047  4121  4154  4217  4502  5257  5275  5657  5848  6272
                                 6487  6572  6646  6823  6840  6925  6929  7430  7466  7577  7910  9559  9814  9884
                                10463 11020 11028 11246 11389 11395 11425 11834 12008 12032 12133 12138 12577 14002
                                14032 14417 14825 14855 14910 15029 15057 15157 15588 15747 16253 16298 17833 18287
                                18345 18362 18516 18717 18765 18816 19258 19342 19369 19465 19559 19857 19869 20028
                                20241 20557 20964 20966 20975 21304 21717
SVEFP0   00008 1EE 000058 27591  0890  6693
SVEFP2   00008 1EE 000060 27592  0891  6694
SVEFP4   00008 1EE 000068 27593  0892  6695
SVEFP6   00008 1EE 000070 27594  0893  6696
SVEPSW   00004 1EE 000008 27572  0896  3647  3649  5258  5276  6701  6702  6705  6706  6718  7901 11032 11033 11034
                                12013 12650 19343 19370 19525 19666 19720 20282 20285 20287 20966 20966 20967 20969
                                20970 20971 20972 20973 21255 21267 21268 21288
SVEPSW2  00004 1EE 00000C 27573  1301  1317  1327  1838  5260  5278  6273  7899  9817  9897 10465 11834 11976 12014
                                12064 12111 12991 14513 14519 16255 19482 19483 19524 19598 19599 20974 21264 21290
SVERID   00004 001 008349 10822 10813
SVER0A   00004 1EE 000014 27575
SVER0B   00004 1EE 000018 27576  0741  9892
SVER0C   00004 1EE 00001C 27577  1842  1843
SVER0D   00004 1EE 000020 27578
SVER0E   00004 1EE 000024 27579 15032 21396 21551 21570 21583
SVER0F   00004 1EE 000028 27580  0898  1424  1744  9890 11023 12577 15034 15189 15233 15275 15409 15534 19520 21580
SVER00   00004 1EE 00002C 27581  1166  1477  1511  1530 11247 14826 14856 15030 17834 19478 19579 19617 19618 20209
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

                                  20209 20210 20211 21041 21256 21292 21985 22180
SVER01   00004 1EE 000030 27582  1448  1839  7344  9559  9889 14418 14644 15322 15328 19577 19580 19581 20212 20322
                                  20370 20371 20569 20773 20797 21397 21582 21742 21980 22178
SVER02   00004 1EE 000034 27583 11390 11393 11426 11429 12068
SVER03   00004 1EE 000038 27584 12066 12085 12112 12135
SVER04   00004 1EE 00003C 27585  1840
SVER05   00004 1EE 000040 27586 12060 12083 12084 12652
SVER06   00004 1EE 000044 27587
SVER07   00004 1EE 000048 27588 12057 12069
SVER08   00004 1EE 00004C 27589  1697  6840
SVER09   00004 1EE 000010 27574  0897  5364  6719  7649  9891 11022 11036 12019 12019 12651 21257 21291
SVFREAL  00001 001 0089FC 11418 22655
SVFRSTRG 00002 001 003730 04401  4389  4399
SVGREAL  00001 001 0087F6 11195 22656
SVGREAL1 00001 001 00880E 11201 11198
SVGREXIT 00004 001 008884 11245 11223
SVGREXT2 00004 001 00888C 11248 11236
SVJOBD   00008 1EE 000050 27590 12019 27596 27646
SVMPXBAL 00004 001 003758 04411 18887
SVMPXH   00004 001 003732 04402 18890
SVMPXL   00004 001 00376A 04416 18889
SVNTRK   00001     000001 28667 28784
SVOLDADR 00004 001 000024 00224 18293
SVOLDP   00004 001 000020 00223  0224  1340  1388  9545 11003 11004 11005 11006 11515 11516 11517 12043 12128 16089
                                  16090 16091 19755 20272 20953
SVOLID   00002 1DD 00000E 28227
SVPAG#   00002 1DD 00000C 28226
SVPFREE  00001 001 008790 11121  3821 18005
SVPGIN   00004 001 00BF0E 15997 22686
SVRETURN 00001 001 0085C2 11029  6843
SVSFLG   00001     000040 28678 11737 11855 11862 11935
SVSPF    00001 001 008D30 11731 11711 11713
SVT      00001     00000F 29214 18410 19421 19431
SVTBLOCK 00002 001 001758 02118  0443
SVTFLG   00001 001 0015DD 01964  2118
SVTPIK   00001 001 00175A 02119
SVTPTR   00001 001 0007A7 00443 19334 19424
SVTSAVAR 00001 001 0121A0 23679  2121
SVUARA   00001 1EF 000000 27562 21254
SVUNT    00002 1DD 000000 28222
SVUPSW   00004 1EF 000000 27563 21255 21262 21263 21280
SVUPSW2  00004 1EF 000004 27564 21261 21262 21282 21287 21288 21289 21289 21290
SVUR00   00004 1EF 000008 27565 21256 21292
SVUR09   00004 1EF 00002C 27566 21257 21291
SVWORK1  00004 1DA 000418 28332 15225 15245 15280 15302 15318 15371 15439 15473 15481
SV9394   00004 001 00F334 21564 21511 21536
SV9394A  00004 001 00F368 21577 21572 21574
SV9394B  00004 001 00F370 21580 21515 21521 21541 21544 21550
SYFIDAS  00001 001 003512 04244  4241
SYN1     00001 001 000F6E 01251  1249
SYSATTN  00001     000001 29457  6918  7113  7182  7590
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
SYSAVAR  00004 1EA 000004 27698  0879  1300  1456  1695  3645  6271  6824 11424 11833 11973 12988 16251 19340 19368
SYSBLKS  00001 1EA 000000 27693  0874  1295  1357  1455  1694  3644  4106  4115  4874  6270  6791 11423 11703 11830
                               11972 12987 14016 16050 16250 16479 16500 16927 16936 19336 19367 19426 19676 19982
SYSBLK0  00001 001 001710 02077  0428  0431  0432  0433  0434  0436  0437  0439  0441  0443 11701 11971 12986 16028
SYSCAT   00001     00000D 24743 26280 26285 26290 26295 26300
SYSCLB   00001     00000B 24741  6948  7099  7146  7172  7358
SYSCODE  00013 001 01DBC0 27090  0469
SYSCOM   00004 001 0006F8 00371  0248
SYSDATE  00009 1DB 00004F 28276 14664
SYSDISP  00001     000008 29316
SYSEND   00001 001 021000 27312
SYSEXIT  00001 001 005FFC 06792  6667
SYSFCH   00001 001 006124 06916  6909
SYSFILE  00002 001 00D840 18569 18546
SYSFLAG1 00001 001 000738 00396
SYSFLAG2 00001 001 000739 00397  0711  1535  1551  3614  4422  4770  5067  6729  6736  6771  6776 13931 18378 18729
                               18857 18880 18959 19384 19635 19637 19996 20063 22029
SYSFLAG3 00001 001 00073A 00398  0825  6917 11202 11209 11248 11432 16670 16681 17547 17554 17681 19671 19977
SYSFLAG4 00001 001 00073B 00399  0712  1536  1537  1552  6743  6777 12772 12774 12782 13975 14253 14333 20064 22033
                               28574
SYSFLAG5 00001 001 000726 00388
SYSFLAG6 00001 001 000727 00389
SYSID    00001     00000F 29317
SYSINF   00004 001 00D8FA 18622 18598
SYSIPT   00001     000001 24731  4285  4335 18442 18536 18660 26260 26265 26270 26275
SYSJAID  00001 1EA 000004 27697  0876  6825
SYSLINE  00001 1DB 00004E 28275
SYSLIST  00001     000004 29359  7011
SYSLNK   00001     000005 24735 26405 26410 26415 26420
SYSLOG   00001     000004 24734 10108 18462 26155 26160 26165 26170 26175
SYSLST   00001     000003 24733  4238 18544 18548 26245 26250 26255
SYSLUB   00002 001 001CD6 02512
SYSLUBNO 00002 001 001598 01924 18016 18076
SYSLUBX  00002 1EC 000002 27670  6946
SYSOCDEV 00002 001 0007DC 00458  3860  4123 17590 18237 18398 18692 18992 19017 19061 19680 19684
SYSPAR   00004 1DB 000070 28292
SYSPCH   00001     000002 24732 18597 18657 26225 26230 26235 26240
SYSPIBFL 00002 1EA 000000 27694  1358  4109  4116  4118  4875  6796 11837 16252 16480 16501 16928 16937 19427 19676
                               19982
SYSPIK   00001 1EA 000002 27695  0877  6816 11704 14028 16052
SYSPROC  00001 001 006034 06814  6806
SYSPTR   00001 001 000798 00430  4107  6793 11828 18110 18112 18114 18116 18118 18126 18127 18128 18129 18130
SYSRDR   00001     000000 24730  4320 26205 26210 26215 26220
SYSREC   00001     00000A 24740 26180 26185 26190 26195 26200
SYSREGA  00004 001 00C9D4 17387
SYSREGB  00004 001 00C9D8 17388
SYSREGC  00004 001 00C9DC 17389
SYSREGD  00004 001 00C9E0 17390
SYSREGE  00004 001 00C9E4 17391
SYSREGF  00004 001 00C9E8 17392
SYSREGS  00004 001 00C9AC 17376 16642 17511
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                    10-02-19

SYSREG0  00004 001 00C9AC 17377
SYSREG1  00004 001 00C9B0 17378
SYSREG2  00004 001 00C9B4 17379
SYSREG3  00004 001 00C9B8 17380
SYSREG4  00004 001 00C9BC 17381
SYSREG5  00004 001 00C9C0 17382
SYSREG6  00004 001 00C9C4 17383 16714
SYSREG7  00004 001 00C9C8 17384
SYSREG8  00004 001 00C9CC 17385
SYSREG9  00004 001 00C9D0 17386
SYSRES   00001     000006 24736  7096  7149  7179  7272 16693
SYSRESW  00001     000080 29486
SYSRLB   00001     000008 24738
SYSRST   00001     0000C0 17465 16955
SYSRTRN  00004 001 00602C 06812  6656
SYSSAVE0 00006 001 000BF8 00896  0880 11021
SYSSAVE1 00004 001 000C04 00898
SYSSCAN  00004 001 006224 07018  7010  7012
SYSSLB   00001     000007 24737
SYSSZ    00002 001 00087C 00517  6668 19338 19431
SYSS00   00001 001 000000 00209  0926  1384  2258  2268  2277  2286  2295  2304  6645  9453  9551  9560 10770 12042
                               12149 12967 14085 14200 14393 15053 15584 15748 16312 17048 17264 17705 19990 26576
                               26576 27303 27303 27306 27308 27309 27312
SYSTEMID 00001     000000 29346  0853  0888  1007  1137  3837  3967  6648 10814 16487 18306 18728
SYSTEMSV 00001 001 012238 23719  2229
SYSTEMS0 00008 001 012240 23718
SYSTEMZN 00002 001 00151E 01892 14605 14608
SYSTIMER 00004 001 000050 00236  1046  3554  3557 14433 14438 14806
SYSTMASK 00004 001 0016C8 02046  4058
SYSTMTSK 00004 001 008E48 11828 11818
SYSTMT1  00001 001 008E66 11836 11832
SYSTOD   00004 001 000054 00237  1053  3565 14445 14447
SYSTSK   00006 001 008C42 11660 11650
SYSUSE   00001     000009 24739 18800
SYSVIS   00001     00000C 24742
S11CONT  00004 001 00E37C 19634
S2RUR    00001 001 012E5C 24354  1996
TABASE   00002 001 012CBC 24280 24003
TAB2314  00004 001 005164 06590  6524
TAB3330  00004 001 005160 06587  6519
TAB3340  00004 001 00515C 06584  6532
TAB3350  00004 001 005158 06581  6527
TAPECCW1 00008 001 001830 02173  2173 18497 18498
TAPECCW2 00008 001 001838 02174  2174 18494 18495 18510 18511 18514
TAPECCW3 00008 001 001840 02175  2175  2176 18501 18502 18505 18512
TAPES    00001     000050 28700  4029 17045 18464 18804 19251 19839
TASKCLI  00006 001 00EACE 20513 20516
TBTAMCB  00002 1FF 000001 28939  8204  8384
TCBACCB  00004 1FE 000014 27354  8235  9095  9534  9779  9810  9812  9812  9833  9886 10000
TCBDC    00001     000080 28927  8462  8465  8473
TCBDCB   00004 1FE 000034 27360  8454  8784  9068  9240  9244  9244 10293
```

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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
TCBEND   00001 1FE 000084 27375 27646
TCBFLAG  00001 1FE 000000 27347  8244  8246  8275  8332  8393  8436  8453  8462  8465  8473  8481  8483  8484  8526
                                 8532  8533  8570  8587  8628  8744  8770  8780  8974  8974  8974  9065  9071  9073
                                 9078  9238  9903 10112 10169 10188 10274 10330 10456 10458 10466
TCBPIK   00002 1FE 000002 27349  8231  8977  9473  9503  9589
TCBPTR   00004 1FE 000080 27374  8972  8994  8996  9090  9587  9777 10454
TCBRDB   00001     000020 28929  8532  8587  8628
TCBRDS   00001     000040 28928  8244  8246  8533  8570
TCBSM1   00001     000010 28930  8481  8526
TCBSM2   00001     000008 28931  8275  8332  8483
TCDIR    00002 1D7 000004 28363  6533  7209  7392  7531
TCH      00004 001 00D642 18400
TCHCK    00001 001 008546 10985 10976
TDBIT    00001     000010 29591
TEBPT    00002 1DB 000046 28271
TEMOPT   00001 1DB 00008D 28303
TEMPFLD  00004 001 000850 00509 20922 20924
TEMPMIDN 00008 001 001540 01897 14596 14626
TEMP2CHN 00004 001 0016E4 02060 18058 18082 29670
TEN      00001     00000A 29421  5610  5627 21039
TENCHECK 00004 001 0041E2 05628  5625
TENSE    00001     0000E9 29597
TERMBYTE 00001     000031 29524  0742
TERMFIN  00004 001 00C1EA 16272 16242 16244 16264
TERMIN   00001     000002 28924 16077 16224
TERMLL   00001     000004 28923 16243 16245 16283 16286
TERMLOOP 00004 001 00C1CC 16262 16266
TERMPGIN 00004 001 00C186 16239 14074
TERMSAVE 00004 001 00C228 16297 16239 16272
TESTCE   00001 001 002F24 03757  4537  4560
TESTEND  00002 001 00693A 07728  7655
TESTEND2 00001 001 00695E 07741  7699
TESTHQ   00004 001 003462 04188  4181
TESTIDAL 00004 001 0070C4 08570  8245  8476
TESTN    00002 001 00883A 11220 11218
TESTNE   00004 001 008DB2 11784 11798
TESTNFF  00004 001 008B8C 11583 11554 11570 11572
TESTPARM 00006 001 00B362 14626 14617 14638
TESTPFR  00002 001 0088B8 11285 11380
TESTREPL 00004 001 007D02 10108  8223
TESTREPM 00001 001 007D2A 10120
TESTREPN 00004 001 007D10 10112 10109
TESTREP1 00004 001 007D26 10119 10137 10139 10147 10156 10167
TESTREP2 00001 001 007D34 10124 10118 10132
TESTREP3 00002 001 007D8E 10149 10145
TESTREP4 00002 001 007D98 10152 10164
TESTREP5 00002 001 007DBE 10165 10153
TESTREP6 00004 001 007E0C 10188 10127
TESTREP7 00004 001 007DEC 10179 10176
TESTSVC  00004 001 006508 07311
TESTSYS  00001 001 00D7F4 18535 18524 18528
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES                                                  10-02-19

TESTSYS1 00001 001 00D820 18547 18543
TESTZ    00002 001 008832 11217
TEXTREAD 00004 001 0069BC 07774  7653  7772
TFCNTZ   00004 001 009C5A 12980 12956
TFEOQU   00002 001 008DE6 11797 11794
TFIX     00004 001 008A8C 11488  0552  7687  7713  8764 10021 14760 14762
TFIXCMAX 00004 001 009CE8 13025 13057
TFIXEXIT 00006 001 008AC8 11504 11496
TFIXID   00001     000002 29657 11512 12016 12868 12894
TFIXIDEN 00001 001 0008E4 00555  1832  9806 14757 14767
TFIXREQ  00004 001 0068D4 07687
TFREE    00004 001 008B0A 11541  0553  7812  8927  8953  9844 12028 14796 14800 19901 19906
TFREEPF1 00001 001 00A3D2 13533 13530
TFREEPF2 00004 001 00A3CC 13531 13538
TFREEPF3 00002 001 00A404 13548 13540
TFREEPF4 00004 001 00A41E 13555 13551
TFREEPF5 00004 001 00A416 13553 13556
TFREEPF6 00001 001 00A3F4 13543 13554
TFREEPF7 00004 001 00A3BC 13527 13524
TFX44    00004 001 00B4A2 14762  1841  1841
TF1ONLY  00002 001 0014E8 01849  1844
TF44R1   00004 001 00B51C 14797  1847  1850
TF44R2   00004 001 00B50C 14793  1846
THDTCH   00001     000020 29505
THFRST   00001     000010 29506
THMAX    00001     00000F 29502
THNUL    00001     0000F0 29503
THOUSAND 00001     0003E8 29423 21017
THREE    00001     000003 29418  5213  5214 12159 15878 15880
THRET    00004 001 00D3CC 18185 19072
THSCAN   00001     000080 29507
THWANT   00001     000080 29504
TH35     00001     000023 29334
TIC      00001     000008 29002  2130  2133  2143  2147  2148  2153  2174  2175  2179  6126  6128  6150  6188  6190
                                  6457  6459  6474  6478  6603  7307  7738  7809  8250  8282  8448  8450  8697  8708
                                 13444 13450 18495 18502 18607 27457 27461 27464 27471 27473
TICADR   00003 1FB 000001 27393  8288  8293  8309  8327  8338
TICCCW   00001 1FB 000000 27391  8138  8301  8304  8346  8349
TICCCW1  00008 001 001778 02130  2131
TICCCW2  00008 001 001780 02133  2134  7259
TICCCW3  00008 001 0017D0 02148  7225  7236
TICCODE  00001 1FB 000000 27392  8282
TICLINE  00004 1FB 000004 27394  8302  8310  8347
TICLOG   00001 001 00DCDA 18995 18993
TIC1     00001 1FD 000038 27380  8249  8684  8696  8701
TIC1A    00003 1FD 000039 27381
TIC2     00001 1FD 000040 27383  8250  8697
TIC2A    00003 1FD 000041 27384
TIDFLD   00015 001 0015EF 01969
TIDTRT   00016 001 001862 02191 20361 20361 20654
TIE      00001     00001B 29012 18511
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
TIK       00002 001 000752 00411  0870  1278  1519  1643  3575  3609  3778  4867  4888  5512  6670  6699  6817  6912
                                   6951  8977 10816 10826 10957 10982 11011 11015 11157 11278 11648 11651 11653 11704
                                  11712 11808 11889 11945 12313 12533 14459 14462 14470 14493 14753 14756 14808 14812
                                  14840 14869 14879 15050 15526 15547 16016 16046 16052 16215 16221 16467 16492 18191
                                  18204 18318 19509 19528 19529 19824 19832 19834 19989 20065 20104 20178 20187 20338
                                  20473 20513 20614 20617 20629 20635 20641 20825 20933 20935 21050 21087 21157 21190
                                  21242 21390 21412 21436 21452 21454 21460 21464 21670 21790 21991 22212 22216
TIKMASK   00001     00000F 29501 20481
TIKSVE    00001 001 008745 11096 11759 11761 11764 12851 13184 13185
TIMEA     00004 001 00A728 13830 13676 13705 13706
TIMEB     00004 001 00A72C 13831 13703
TIMEDEF   00002 001 00A740 13834 13711 13744
TIMER     00001     000080 29229  3544
TIMERSET  00001     000080 27681  0900  0902  6715 10986 10988
TIMES     00004 001 008098 10589 10180 10181 10254 10256 10284
TIMEST    00004 1D4 000008 28391 10181 10266 10284
TIME1     00004 001 00A734 13832 12688 12701 12707
TIME2     00004 001 00A738 13833 12695 12707
TIRSPT    00004 001 0016E5 29671 18056 18080 29672
TKREQID   00001 1F6 000007 27449  0805  4132  4798  5512 17148 17248 17291 20513
TLCA2     00001     0000DE 28768
TLCB      00004 1DE 000008 28213
TLCL      00001 1DE 00000D 28215
TLDS      00001 1DE 000000 28209 18201 28218
TLDT      00001 1DE 00000C 28214
TLLN      00001     000010 28218 18216
TLOOP     00004 001 0088C4 11290 11303
TLPU      00004 1DE 000000 28211 18202
TLRQ      00002 1DE 00000E 28216
TLTC      00004 1DE 000004 28212
TMINSTR   00004 001 00A546 13669 13663
TODBIT    00001     000040 28517 14522 14530
TODCOM    00004 1DB 000078 28294
TONFBTS   00001 001 00961A 12483 12457
TONFBTS1  00004 001 009640 12493 12487
TOTDVC    00001     000096 24724 24747 24759 24772 24785 24798 24811 24824 24837 24850 24863 24876 24889 24902 24915
                                  24928 24941 24954 24967 24980 24993 25006 25019 25032 25045 25058 25071 25084 25097
                                  25110 25123 25136 25149 25162 25175 25188 25201 25214 25227 25240 25253 25266 25279
                                  25292 25305 25318 25331 25344 25357 25370 25383 25396 25409 25422 25435 25448 25461
                                  25474 25487 25500 25506 25518 25531 25544 25557 25570 25583 25596 25609 25622 25635
                                  25648 25661 25674 25687 25700 25706 25718 25731 25744 25757 25770 25783 25796 25809
                                  25815 25827 25840 25853 25866 25879 25892 25905 25918 25931 25944 25957 25970 25983
                                  25996 26009 26022 26028 26040 26053 26066 26079 26092 26105 26118 26131 26137 26149
TOTTAP    00001     000000 24725
TOVEREOC  00001     000060 28956  5580
TPBAL     00002 001 0007B4 00447  1532  6773 13928 14246
TPBIT     00001     000002 29381  0711  1535  1551  6736  6771  6776 13931 20063 22029
TPBUSY0   00001 001 00DE70 19128 19101 19107 19110
TPBUSY1   00001 001 00DEB0 19145
TPBUSY2   00001 001 00DED4 19157 19154
TPBUSY4   00004 001 00DE78 19131 19217 19219
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
TPFTXP   00006 001 0095FA 12472 12474
TPPIK    00002 001 0008F4 00562  1547 13958 22031
TPRT1    00001     000043 28742
TRABIT   00001     000080 28864  1396  1563  3617  4051  4100  4103  5161  5222  5236  5361  9505 14415 14849 16108
                               16113 16117 16127 16286 17996 18264 18283 19554 19918 20252 20309 20546 20558 20560
                               20689 21456 21458 21469 21519 21543 21549 21648 21734
TRACKNR  00001 001 012347 23814
TRACK1   00001     000100 29253
TRACK5   00001     000501 29254
TRACK9   00001     000200 29255
TRADDR   00004 001 000090 00259 11332 11333 11511 11512 11648 11651 11660 11662 11675 11681 11692 11714 11735 12509
                               12510 16085
TRAM     00001     000080 29102  1445 11571 12071 12091 12229 12381 13956 14007 15529 16006 16190 18295 20395 20997
                               27267 29103
TRANS    00002 001 006848 07637  7588  7591  7597  7602
TRANSAV  00004 001 00C96C 17358 17510 17694
TRANSAVA 00004 001 00C994 17369 17565 17573 17609
TRANSAVB 00004 001 00C998 17370 17607
TRANSAVC 00004 001 00C99C 17371
TRANSAVD 00004 001 00C9A0 17372
TRANSAVE 00004 001 00C9A4 17373
TRANSAVF 00004 001 00C9A8 17374
TRANSAV0 00004 001 00C96C 17359
TRANSAV1 00004 001 00C970 17360 17616
TRANSAV2 00004 001 00C974 17361 17623
TRANSAV3 00004 001 00C978 17362 17582 17588 17594 17605
TRANSAV4 00004 001 00C97C 17363 17608
TRANSAV5 00004 001 00C980 17364
TRANSAV6 00004 001 00C984 17365
TRANSAV7 00004 001 00C988 17366 16664 16729 17595 17597 17641 17643 17692
TRANSAV8 00004 001 00C98C 17367 17572
TRANSAV9 00004 001 00C990 17368
TRANSCCW 00002 001 006898 07667
TRCNDCHK 00001     000002 28966  5578  5882
TRFLD    00017 001 0015DE 01967  6657  6659
TRINT    00001     000020 28683  3614 19635 19637
TRKCHK   00004 001 0042BE 05722  5579  5883
TRKEOC   00006 001 00436A 05773  5581
TRKNO    00004 001 004318 05745  5742
TRKOFL   00001     000040 28872
TRLCCW   00001 001 00D50C 18297 18294
TRNOFF   00004 001 00322C 04009  0705  4350  4352  4659  5268 17066 17300 18453 19166 19262 19265 19273
TRNOFFCC 00006 001 003226 03998 16917
TRNOFF1  00001 001 003254 04020  4013  4017
TRSPEC   00001     000012 29321 10788
TRTABB   00004 001 00A51C 13658 12766
TRTABB1  00002 001 00A544 13668 13664
TRTAM    00014 001 00090E 00577
TRTAMBG  00001 001 00090F 00572 29043
TRTAMF1  00001 001 000917 00576 29059
TRTAMF2  00001 001 000915 00575 29055
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
TRTAMF3  00001 001 000913 00574 29051
TRTAMF4  00001 001 000911 00573 29047
TRTBG    00001 001 000931 00585 29045
TRTBND   00001 001 00096D 00615
TRTBUF   00001 001 00095B 00604  9122  9154  9439 29068
TRTCBF   00001 001 000963 00608  4056 18267 18963 29074
TRTCCW   00001 001 000961 00607  8999  9111  9452 29065
TRTCHQ   00001 001 00095F 00606  4169  8411 18105 29071
TRTDV    00008 001 00AC1B 14389  0627
TRTDVX   00008 001 00ACCB 14369 14389
TRTEXT   00010 001 00094C 00601
TRTFIX   00001 001 00095D 00605  1797  9457  9647  9799 11460 11548 11679 12185 12266 12947 12953 12962 12968 29070
TRTFLD   00032 001 0015CF 01965  6660  6664
TRTFX    00014 001 000930 00590
TRTF1    00001 001 000939 00589 29061
TRTF2    00001 001 000937 00588 29057
TRTF3    00001 001 000935 00587 29053
TRTF4    00001 001 000933 00586 29049
TRTGTVS  00014 001 000922 00584
TRTGVBG  00001 001 000923 00579 29044
TRTGVF1  00001 001 00092B 00583 29060
TRTGVF2  00001 001 000929 00582 29056
TRTGVF3  00001 001 000927 00581 29052
TRTGVF4  00001 001 000925 00580 29048
TRTG38   00001 001 00094D 00597 20366 20561 20573 29064
TRTG41   00001 001 00094F 00598 21783 29063
TRTG58   00001 001 000957 00602 12053 29072
TRTG92   00001 001 000965 00609 21350 21567 29075
TRTIDRA  00001 001 000955 00600  0832  0948  1671  6901  6903  7894  7896 12003 15122 19514 29069
TRTLL    00014 001 00093E 00596
TRTLLBG  00001 001 00093F 00591 13898 14293 29046
TRTLLF1  00001 001 000947 00595 29062
TRTLLF2  00001 001 000945 00594 29058
TRTLLF3  00001 001 000943 00593 29054
TRTLLF4  00001 001 000941 00592 29050
TRTLTK   00001 001 000967 00612  0446  0761  1212 19511 19526 19630
TRTMASK  00001 001 00090E 00571 29042
TRTMSK   00008 001 000966 00616 29041
TRTMVC   00001 001 00ACA4 14356 14273
TRTPFG   00001 001 000953 00599  1796  9652  9796 11461 11549 12186 12267 12961 29067
TRTPTA   00001 001 00096B 00614  1674 19874 20002
TRTPWSRV 00001 001 00097D 00619  1214 18214 29076
TRTRUN   00001 001 000969 00613
TRTSEIZE 00001 001 000959 00603  1194 13895 20275 29073
TRTSYS   00016 001 000956 00610
TRUNRF   00001     000080 28617  5684
TSKWRSVC 00001 001 00B734 15041
TSTATTN  00004 001 003068 03858  4655
TSTCHN   00004 001 003060 03856
TSTDEV1  00004 001 00DDF2 19090 19084 19086
TSTDEV2  00001 001 00DDFC 19093 19089
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SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

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TSTENTRY 00001 001 006288 07082  6995
TSTEOJ   00001 001 003638 04329  4324  4326
TSTEOP   00004 001 003654 04339
TSTERF   00001 001 003254 04026  4354 17032
TSTERQ   00004 001 00B4BC 14768 14751 14766
TSTFBND  00001 001 00B800 15121 14968 15075
TSTFLPTR 00004 001 00D302 18099 18183 19011
TSTFLP05 00004 001 00D316 18105
TSTLEN   00002 001 009560 12416 12411
TSTPFA   00004 001 008EAA 11862 11856
TSTRPFR  00002 001 008BEE 11614 11620
TSTSPB   00004 001 009598 12439 12455
TSTSVC   00004 001 006642 07415  7401
TSTTFC   00004 001 009796 12601 12590 12592 12612
TSTWCN   00004 001 009850 12662 12657
TTCHECK  00006 001 00EF84 21087 21009 21027 21068 21079
TTFIX    00001     000040 28905  8399  8757  8882  9218  9781 10002
TTIME    00008 001 00F958 22569  0904  6714 21020 21032 21037
TTIMEB   00001     000005 29230  3537
TTINIT   00001     000080 29233
TTINTR   00001     000004 29235 27187
TTOWNR   00002 001 0007B6 00448 14879 21050 21087
TTP      00001     0000B0 28774 19090
TTRTFIX  00004 001 008C8A 11679 11673
TTTAB    00008 001 00F950 22568  0444  0904  6714 21020 21032 21037
TTTMR    00001 001 002E9E 03669  3538
TTTMR1   00004 001 002EC6 03683  3678
TTTMR2   00001 001 002ED4 03687  3675
TTWAIT   00001     000040 29234  3681 14881 14883 21057
TUDIVSOR 00004 001 001568 01906
TUNSP    00001     0000FF 28777  8192
TUNSPB   00001     0000FF 28778
TWOKBDRY 00004 001 006906 07701  7674
TWOKMASK 00004 001 001638 02010  7670  7701  7806
TWTIMS   00002 001 001860 02183  3566  3622 14458 14459 14471 14473 14808 14837 20635 20637
TXTBDRY  00004 1EE 000060 27604  7589  7702
TXTBLOCK 00001     000400 29257  2152  7651
TXTCCB   00002 001 0016B4 02037  6553  6565  7262  7280  9552
TXTCCBSK 00004 001 0016BC 02043  6535  6545  7218  7240  7275
T1017    00001     000078 28749
T1017TP  00001     0000D5 28751
T1018    00001     000079 28750
T1018TP  00001     0000D6 28752
T1050A   00001     000000 28728
T1052    00001     000000 28694  3865  4125 18694 19063
T125D    00001     0000B2 28695 16901 24975 28696
T125DP   00001     0000B2 28696
T1287    00001     000077 28746 28747
T1288    00001     000077 28747
T1403    00001     000040 28732
T1403U   00001     000042 28734 24858 24871 24884 24897 24910 24923 24936 24949 24962
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
T1419    00001     000072 28757
T1419P   00001     000073 28755
T1419S   00001     000074 28756
T1442N1  00001     000030 28717
T1442N2  00001     000022 28719
T1443    00001     000041 28733  4927
T145     00001     000045 17484 17135
T148     00001     000048 17485 17137
T155     00001     000055 17486
T2245    00001     000044 28740
T2260    00001     0000C0 28770  3938  4373 18405
T2311    00001     000060 28706  4907  5741
T2314    00001     000062 28707  4909  6525 25513 25526 25539 25552 25565 25578 25591
T2321    00001     000061 28708  4747  4832  4905
T2400T7  00001     000050 28701
T2400T9  00001     000050 28699 28700 28701
T2495TC  00001     000051 28716  4031  4492 18466 18806 19253 19841
T2501    00001     000010 28727  4346 18444
T2520B1  00001     000031 28720
T2520B2  00001     000020 28731
T2520B3  00001     000020 28730
T2540P   00001     000021 28729 24806 24819 24832 24845
T2540R   00001     000011 28721 24754 24767 24780 24793
T2560    00001     000033 28753  3976
T2596    00001     000030 28718
T2671    00001     000070 28745
T2701    00001     0000D0 28759 19153 24988 25001 25014 25027
T2702    00001     0000D1 28760
T2702A   00001     0000D1 28761
T2702B   00001     0000D1 28762
T2702C   00001     0000D1 28763
T2702D   00001     0000D1 28764
T2703    00001     0000D2 28765 25040 25053 25066 25079
T2955    00001     0000D7 28772
T3203    00001     00004A 28741
T3211    00001     000043 28735
T3277    00001     0000B0 28775  3936  4375 16903 18403 25092 25105 25118 25131 25144 25157 25170 25183 25196 25209
                             25222 25235 25248 25261 25274 25287 25300 25313 25326 25339 25352 25365 25378 25391
                             25404 25417 25430 25443 25456 25469 25482 25495 26144 28776
T3277B   00001     0000B0 28776
T3330    00001     000063 28709  5522  5529  5546  5651  5850  6373  6520 25604 25617 25630 25643 25656 25669 25682
                             25695 25822 25835 25848 25861 25874 25887 25900 25913
T3330B   00001     000065 28710  5548  5852  6522
T3340    00001     000068 28711  3951  5540  5629  5734  6167  6530 18408 19322 19386 19393 28714
T3340R   00001     000068 28714
T334036  00001     000069 28712  5542 19380
T334070  00001     00006A 28713  3954  5544  5631  5736  6169 19377
T3350    00001     000067 28715  5550  5804  5854  6528 25926 25939 25952 25965 25978 25991 26004 26017 26035 26048
                             26061 26074 26087 26100 26113 26126
T3410T7  00001     000053 28705
T3410T9  00001     000053 28704 28705
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
T3420T7  00001     000052 28703
T3420T9  00001     000052 28702 25713 25726 25739 25752 25765 25778 25791 25804 28703
T3504    00001     000012 28724
T3505    00001     000012 28723 28724
T3525P   00001     000023 28725
T3525RP  00001     000032 28726
T3540    00001     000080 28773  4242  4251 18440 18523 18542 18579
T35401   00006 001 00D924 18636 18633
T35402   00004 001 00D90C 18630 18635
T35405   00004 001 00D906 18628 18580
T3704    00001     0000DC 28769
T3705    00001     0000DC 28766 28769
T3791L   00001     0000DE 28767
T3800    00001     000045 28736  4016 20011
T3800B   00001     000045 28737
T3800BC  00001     000045 28739
T3800C   00001     000045 28738
T3881    00001     000011 28722
T3886    00001     00007C 28748
T3895    00001     00007D 28758  4014 20009
T5203    00001     00004C 28743
T5203U   00001     00004D 28744
T5425    00001     000034 28754  3978
T7770    00001     0000D3 28771
UBTAMCB  00002 1FF 000001 28938  8238  8375  9025  9027
UCPEND   00001     000020 28663  4980  4982  5311  5323 19030
UL       00001 1F1 000011 27539  4258
UNASSGN  00001     0000FF 29508
UNCCODE  00001     0000FA 17477
UNCHAIN  00001     000020 29517
UNCND    00001     0000F0 29514
UNCOND   00001     00000F 28596 18860
UNFIX    00001 001 0073FC 08881  9410  9661  9713 10415 10517
UNFIX0   00001 001 00740C 08888  9221
UNFIX1   00004 001 007430 08900  8904
UNFIX2   00002 001 007452 08909  8899
UNFIX3   00004 001 007456 08912  8890
UNFIX4   00004 001 007466 08918  8930
UNFIX5   00004 001 007474 08922  8920
UNFIX6   00004 001 007490 08929  8923
UNITCHK  00004 001 003058 03854  3845
UNITCK   00001     000002 28631  3795  3854  4351  5283  6038
UNITEXCP 00001     000001 28632  4345  4349
UNPOST1  00001     00007F 29495 20368 21767
UNPOST2  00001     00003F 29496 20405
UNTCHBL  00001     000040 24053
UNUSE    00001     000001 29686 12083 27150
UNWAIT   00004 001 00ECC4 20769 20548 20692
UNWAIT1  00004 001 00ECDA 20775 20771
UNWTDEQ  00004 001 00ECE0 20777 20769 20793
UNWTDQ1  00004 001 00ED14 20793 21770
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SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

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UNWTEST  00004 001 00ED02 20787 20783
UNWTEST1 00004 001 00ED08 20789 20780
UPADD    00004 001 000FE6 01297 20257 21554
UPDALTAR 00004 001 00887A 11242 11239
UPDEOPQ  00006 001 008CB4 11692 11659 11663 11665 11680 11729 11739
UPDMIDN  00004 001 00B2BC 14574
UPDMVC1  00006 001 00EDFE 20922 20916
UPDMVC2  00006 001 00EE04 20923 20918
UPDMVC3  00006 001 00EE0A 20924 20920
UPDPRFND 00004 001 00EDDE 20912 20909
UPDPRLP  00004 001 00EDCA 20907 20911
UPDPRTY  00001 001 00EDAC 20891 20835
UPDSYSDT 00004 001 00B378 14635 14609
UPSI     00001 1DB 000017 28250
UROUT    00001 001 001124 01429  1411
USEE     00001     000001 27729 21906
USEFLAGS 00001 1E8 000001 27725 21907 21917 21940 21960 21983 22392 22403
USEJ     00001     000040 27727 21917 22403
USELISTL 00001 1E8 000000 27723 21928 22186 22195 22489
USENSE   00001     000020 28886  4101  4898  5150  8239 10144 10298 18241
USEPARM  00001 1E8 000000 27721 21828 22194 27731
USEPARML 00001     000004 27731 21929 22190 22490
USERESCD 00002 1E8 000002 27730 21966 22198 22257 22259 22263 22265 22470
USERF    00001     0000F0 29456  6911
USERIDS  00001     0000F0 29466  6666
USERMSK  00001     00000F 29458  7486 29460
USERPCK  00001 001 008478 10915 10847 10849 10853
USERTID  00001     000008 29348  6720
USES     00001     000002 27728 21906 22392
USEW     00001     000080 27726 21940 21960 21983
VALCHA   00001     000002 29562 16909 16948
VALCHLG  00001     000020 29558
VALCPAK  00001     000004 29561
VALIA    00001     000080 29556
VALID    00006 001 0012D2 01605  1606  6984  7003  7627 14414 18033 20343 20346 20349 20353 20358 20480 20847 21348
                             21376 21565 21781
VALIDATE 00004 001 00C106 16188 16003 16058 16174
VALIDE   00004 001 00BFB4 16058 16081
VALIDNXT 00002 001 0012FA 01617  1609
VALIDOK  00004 001 0012E6 01611  1619
VALIDR2  00004 001 0012DA 01608  1342 20956 21214
VALIDSVA 00004 001 0012C4 01600 14749 19792 19804 20688 22184 22191 22204 22206
VALIDTR  00004 001 006844 07627  7596  7606  7620
VALIDTST 00004 001 001304 01620  1610
VALID1   00001     0000EA 29606 16434 16441
VALID2   00001     0000EB 29612 16508
VALID3   00001     0000EC 29621
VALLIST  00002 001 00C0E4 16171 15831 16013
VALPADR  00001 001 0096C6 12535
VALRTRY  00001     000010 29559 16953
VALUNA   00001     000001 29563 16909 16957
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
VALUNST  00001     000008 29560
VBA      00004 1FD 00003C 27382  8253  8316  8671  8676  8702  8715  9282  9385 10289
VBYTB    00001     000400 28560
VBYTBI   00001     000080 28563 15261 15264 15379 15382
VBYTSV   00001     000200 28570 15264 15382
VCCBA    00004 1D4 000000 28389 10131 10185 10281
VCCWADR  00001 1FC 000000 27387  8137
VCCWAD1  00004 1FE 000044 27365  8254  8438  8442 10286
VCCWBUFE 00001     000020 29475 29478
VCCWNEXT 00001 1FC 000008 27389  8273  8317
VCCWTOT  00008 1FC 000000 27388  8443
VDSA     00004 1D6 000008 28374  7119  7187
VIRTAD   00001 001 00118C 01481  0460  1711  5515  5708  5924  5970  6131  6193 18423
VIRTAD1  00002 001 0011DC 01507  1498  1504
VIRTAD2  00002 001 0011D8 01505  1483  1493  1495
VIRTENDP 00004 1DC 00000C 28235 11906 12254 12540 15557 15620 15654 15696 16195 27222 27224 28242
VIRTJOB  00001 001 0091A8 12108 12061
VIRTMOD  00004 001 00C11A 16193 16191
VIRTMSK  00001     00000F 29460  7647  7662  7774  7788  7898
VIRTORP  00004 1DC 000008 28234 11904 12089 12109 12252 12538 16193 20996 27222 27225 28241
VISTAB   00001 1DA 00041E 28334 15661 15704 28568
VLEA     00004 1D6 000014 28377
VLNA     00004 1D6 000010 28376
VLSA     00004 1D6 00000C 28375  7121
VLT      00004 1D6 000000 28373
VNER     00001     000004 28932
VSAMCOM  00004 001 00B638 14907  0426
VSAMDEL  00002 001 00E29E 19534 19532
VSFLAG   00001 001 00073B 28574 15602 15604
VSMDELAY 00001 001 005EB0 06689  1141
VTAMRETA 00004 001 00E38A 19638
WAIT     00001     000007 29327  0945 16678 17553
WAITBIT  00001     000002 29401  0855  1009  3647  3649  6723 16449 16722 20971
WAITFLD  00001 001 00ACB6 14363 13899 13909 13933 14272 14294 14300 14310
WAITLIST 00032 001 013338 24369  1998 22532
WAITRAS  00001     000040 28687 16670 16681 17547 17554 19671 19977
WANTBIT  00001     000080 29485 21739 21763
WCCHH    00004 1EE 000090 27638  7151  7171  7192
WCCHHR   00005 1EE 000090 27637  7145  7145  7204  7216  7226  7227  7397  7534  7781  7786
WCKD     00001     00001D 29013
WELDASD  00001 001 00D6EE 18459 18439 18441 18443
WHAWR0   00001     000000 29034  5713  5731  6155
WHHR     00002 1EE 000092 27640  7394  7529
WID      00002 001 008742 11091 11585 11586
WIDSVE   00002 001 008740 11090 12621 12622
WKREG    00001     000002 29667
WKREG2   00001     000002 29668 12162 12162 12163 12176 12177 12178 12187
WKREG3   00001     000003 29669 12158 12159 12160 12161 12163 12164 12167 12168 12172 12173 12174 12175
WORKHA   00001     000080 04627  4911  5495  6418
WORK1    00001     000003 28539 14963 14994 15009 15010 15011 15011 15012 15014 15017 15045 15046 15047 15047 15048
                                15052 15179 15180 15181 15181 15182 15212 15213 15214 15224 15224 15225 15246 15246
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
                                  15259 15259 15267 15269 15269 15272 15277 15280 15285 15285 15287 15290 15290 15291
                                  15291 15292 15294 15301 15301 15302 15393 15456 15456 15457 15463 15470 15470 15471
                                  15471 15472 15473 15474 15480 15481 15482 15537 15538 15539 15542 15547 15548 15549
                                  15549 15550 15550 15551 15551 15557 15560 15566 15567 15568 15568 15569 15581 15581
                                  15582 15601 15607 15608 15609 15609 15610 15614 15618 15619 15619 15622 15624 15625
                                  15633 15640 15642 15642 15643 15643 15651 15652 15653 15657 15661 15662 15663 15671
                                  15678 15683 15683 15684 15684 15704 15705 15706 15738 28540
WORK2     00001     000004 28540 15048 15049 15241 15242 15242 15243 15250 15250 15251 15253 15255 15257 15258 15287
                                  15314 15315 15316 15317 15320 15322 15361 15362 15365 15366 15367 15368 15369 15372
                                  15373 15374 15375 15375 15377 15379 15379 15382 15382 15383 15384 15385 15387 15388
                                  15389 15391 15391 15436 15436 15437 15440 15443 15445 15446 15447 15454 15457 15460
                                  15462 15463 15464 15467 15467 15468 15472 15474 15477 15479 15480 15482 15539 15540
                                  15554 15555 15556 15636 15637 15658 15659 15660 15677 15707 15711 15712 15714 15719
                                  15720 15725 15728 15728 15729 15731 15732 15732 15733 15735 15736 15737 28541
WORK3     00001     000005 28541 15050 15051 15052 15249 15255 15318 15319 15320 15360 15360 15363 15363 15370 15371
                                  15386 15386 15392 15393 15439 15440 15446 15620 15621 15622 15623 15625 15633 15634
                                  15635 15635 15637 15638 15644 15649 15650 15654 15655 15656 15668 15669 15671 15672
                                  15673 15674 15679 15682 15685 15691 15694 15695 15696 15697 15698 15699 15702 15702
                                  15703 15708 15711 15713 15713 15716 15716 15717 15720 15721 15722 15723 15729 15731
                                  15738 15739 15740 15741
WPBIT     00001     000008 29607 16434
WR        00001 1EE 000094 27641  7376  7383  7511
WRACR     00001     000009 29004 18246
WRAPOLD   00005 001 012341 23811
WRAPSKA   00005 001 01233B 23809
WRITE     00001     000001 28994  2178  8500
WRNBUFA   00002 001 0123F5 23986 24005
WRNLNE    00003 001 012C88 24245 24018 24025
WSS       00001 1EE 000095 27642  7287  7377  7385  7769  7782  7784  7787
XABNORM   00001     000040 21701 21418 21471 21516 21545 21548
XCEXIT    00002 001 00F424 21690 21678 21684
XCEX1     00004 001 00F414 21686 21676
XCHECK    00001     000080 21696 21357
XCHKRJ    00004 001 00F402 21679 21674 21683
XCHK1     00004 001 00F408 21682 21672
XCOMPL    00001     000080 28904  8398  9061
XCONT     00004 001 00F324 21551 21546
XCPR      00001     000080 28895 18037 18040 18243 18298 18421
XDELETE   00001     000040 21698 21359 21415
XDELTALL  00001     000048 21697 21352
XECBADDR  00003 1E7 000009 27738 21457 21468 21486 21518 21542
XECBBASE  00004 001 000898 00532 22712
XECBDSEC  00001 1E7 000000 27735 21339 27741
XECBEND   00004 001 00F430 21708 21573
XECBGSL   00002 001 00F428 21705 21371 21434 21606
XECBLENG  00001     000010 27741 21380 21420 21439 21474 21610
XECBNAME  00008 1E7 000000 27736 21387 21420 21420 21439 21439 21575 21608
XECBOWNR  00002 1E7 00000C 27739 21390 21412 21436 21446 21633 21673 21682
XECBSLOT  00004 001 00F42C 21707 21378 21435 21571 21605
XECBTAB   00004 001 013358 24378 21707
XECBTEND  00001 001 013498 24381 21708
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
XECBTYPE 00001 1E7 000008 27737 21381 21389 21418 21466 21471 21512 21516 21537 21545 21548 21631 21637
XECBUSL  00002 001 00F42A 21706 21370 21392 21421 21423 21431 21440 21442
XECBWPTK 00002 1E7 00000E 27740 21417 21417 21460 21464 21473 21473 21639 21675 21677 21686
XECCHK   00001 001 00F3DA 21668 21513 21539
XECTYP   00002 001 00F438 21710 21671
XEMASK   00004 001 00F434 21709 21669
XFE      00001     0000FE 29462
XFF      00001     0000FF 29431  0709  0711  0826  0902  1536  1551  1832  3597  3649  3676  3966  4010  4018  4136
                                 4200  4214  4458  4476  4486  4530  4682  4953  5041  5067  5249  5270  5276  5279
                                 5288  5314  5316  5323  5329  5596  5648  5934  6038  6049  6096  6282  6303  6404
                                 6418  6432  6542  6560  6747  6749  6776  6839  6840  6858  6953  6971  6989  7126
                                 7230  7287  7377  7378  7536  7537  7769  7782  7842  7898  8453  8928  9073  9078
                                 9989 10005 10169 10330 10988 11030 11054 11057 11248 11292 11319 11616 11658 11732
                                11761 11862 11884 12048 12071 12167 12168 12174 12316 12593 12603 12665 12666 12774
                                12845 12860 12889 12894 14072 14333 14415 14530 14767 14863 14871 14883 14892 15211
                                15249 16663 16681 16715 16950 16987 17007 17031 17035 17037 17157 17161 17262 17273
                                17289 17293 17294 17554 17681 17682 17924 17935 18035 18042 18044 18055 18056 18066
                                18080 18101 18103 18137 18142 18147 18149 18161 18246 18248 18255 18259 18309 18321
                                18378 18450 18455 18519 18527 18533 18729 18893 18924 19030 19035 19053 19125 19288
                                19319 19327 19370 19637 19951 19975 19987 20063 20166 20211 20218 20401 20971 20991
                                21044 21053 21057 21267 21418 21477 21516 21548 29481
XFFF     00001     000FFF 29430
XINUSE   00001     000080 21700 21381 21389
XNOPOW   00006 001 00F272 21464 21449 21451 21455
XPOSTER  00001     000009 21703 21361 21631 21637
XRESET   00001     000010 21699 21359
XRESETC  00006 001 00F298 21473 21462 21467 21470
XRPOW    00004 001 00F254 21456 21453
XTNPSW   00004 001 000058 00238
XTNXT    00004 001 00F29E 21474 21443 21461 21465
XTRESUME 00004 001 002DF2 03597  3593
XTTIK    00006 001 00F206 21436 21475
XTTWP    00001 001 00F228 21445 21437
XWAITER  00001     000006 21702 21363 21466
XXCHAIN  00004 1D8 000000 28344
XXOPSW   00004 1D8 000004 28345
XXPIK    00001 1D8 00000E 28348
XXREGB   00004 1D8 00003C 28353
XXREG0   00004 1D8 000010 28350
XXREG4   00004 1D8 000020 28351
XXREG8   00004 1D8 000030 28352
XXRID    00001 1D8 00000D 28347
XXSECT   00001 1D8 000000 28343
XXSELECT 00001 1D8 00000C 28346
X0C      00001     00000C 29454
X0F      00001     00000F 29432  4651  4808 18970 19720
X00      00001     000000 29451  0735 10412 11968
X01      00001     000001 29461
X04      00001     000004 29452
X08      00001     000008 29453
X1E      00001     00001E 29280
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SYMBOL    LEN   ID VALUE  DEFN     REFERENCES
X1F       00001     00001F 29281
X10       00001     000010 29455
YAVAIL    00001     000010 24054
YBITBYT   00002 1DA 00041C 28333 15267 15272 15277 15292 15674 15741
YDSKPOS   00002 001 0006B0 00334
YERPEXIT  00002 001 01026E 23167
YESMVCT   00001     000011 14383 14113
YESSAVE   00004 001 00EC74 20695 20691
YESSAV1   00004 001 00EC86 20701 20698
YESSAV2   00004 001 00EC82 20699 20704
YFOCL     00002 001 00068E 00320
YHQSNS    00002 001 004028 05350  5224  5238
YIGNORE   00002 001 01026A 23165 19932 19949 19969 20007
YITREQ    00001 001 000748 00407  3553  3621 14448 14476 14480 14490 14810
YITTAB    00002 001 0006B6 00337 14844 20633 21161
YJIBTAB   00002 001 000694 00323
YLUBTAB   00002 001 00069C 00327  6949 18088
YNICL     00002 001 00069A 00326
YOCTAB    00002 001 0006B8 00338 21189
YPCTAB    00002 001 0006B4 00336 20625 21118
YPIBTAB   00002 001 0006AA 00331  0737  0806  0878  0881  1172  1791  3570  3652  3779  3891  5127  6658  7402 10958
                              10983 11012 11016 11567 11819 11978 12282 13009 13953 13987 14042 14169 15051 15528
                              16289 16493 17292 19539 19592 19611 19823 19988 20236 20387 20563 20590 20737 20785
                              21447 21642 22542
YPIB2TAB  00002 001 0006CC 00345  1217  3777  4799  6671  6818  7154  7610 11599 11765 11809 11890 13992 14659 15010
                              15548 15608 16047 19546 19825 19833 19935 20488 20778
YPPBEG    00002 001 000658 00300
YPUBTAB   00002 001 000690 00321  1165  1585  1588  3945  4188  4364  4381  4398  4403  4411  4454  4977  5118  5207
                               5210  5241  5310  5661  5668  6243  6298  6356  6359  6745 17086 17098 18095 18331
                              18334 18367 18772 18870 18877 19103 19320 19352 19388
YRETRY    00002 001 010268 23164  6285 19955
YRWT      00001 001 0094AA 12318 12315
YYDDD     00005 1DB 000053 28278
YYFLD     00008 001 00154F 01899 14721
Z         00001     000008 28580  0921  1196  1312  3545  3569  3983  4209  4487  7281  8518  8521  8525  8579  8942
                               9029  9031  9207  9211  9550  9834  9838  9859  9887 10176 10405 10987 12230 13888
                              14266 14828 18374 19097 19242 19265 19636 20107 20200 20277 21043 21641
ZERO      00001     000000 29416  0760  0762  0787  0823  0872  0896  0948  0952  0975  1184  1297  1350  1361  1452
                               1475  1503  1671  1674  1691  1796  1797  1826  1829  3535  3571  3624  3844  3923
                               4050  4112  4120  4369  4377  4485  4942  4950  5057  5289  5308  5497  5535  5952
                               5977  5984  5996  6274  6295  6339  6600  6649  6655  6668  6734  6766  6901  6903
                               6908  6912  6951  6953  7088  7229  7289  7548  7683  7684  7732  7746  7757  7894
                               7896  8238  8277  8284  8333  8411  8555  8556  8621  8796  8957  9111  9122  9185
                               9186  9187  9188  9439  9457  9655  9796  9799  9870  9903 10466 10821 10826 10828
                              10946 10968 11383 11384 11420 11569 11661 12015 12084 12953 12961 13895 13905 13910
                              13913 13944 14024 14092 14307 14450 14473 14495 14509 14518 14763 14787 14814 14832
                              14837 14990 15004 15049 15122 16005 16018 16922 16931 17539 17545 17559 17564 17599
                              17604 17613 17622 17679 17691 17850 17887 17994 17995 18051 18090 18105 18187 18188
                              18189 18214 18267 18291 18389 18488 18489 18540 18723 18724 18802 18817 18820 18825
                              18829 18874 18875 18895 18922 19009 19031 19092 19122 19123 19136 19337 19338 19483
                              19514 19526 19581 19631 19632 19874 19967 19999 20187 20383 20396 20532 20561 20580
```

SYMBOL LEN ID VALUE DEFN REFERENCES 10-02-19

20825 20973 20974 21055 21762 21928 22195 22489

ZEROBYTE 00004 001 000840 00504 16669 17546 20283
ZERODFLD 00006 001 00ABF8 14274 13967
ZEROH2 00001 00003F 29395 16688
ZONECORR 00004 001 00B3C0 14676 14606 14614

STMNT ERROR NO. MESSAGE 10-02-19

26485 IPK216 MNOTE GENERATED
27313 IPK216 MNOTE GENERATED

THE FOLLOWING MACRO NAMES HAVE BEEN FOUND IN MACRO INSTRUCTIONS

GENSUPVR	SUPVR	CONFG	STDJC	FOPT	PIOCS	VSTAB	ALLOC	ALLOCR	IOTAB	DVCGEN	ASSGN	DPD
SEND	ISTAVT	SGSVC	CRTGEN	SMICR	IOINTER	EXCP	WAIT	DISP	SGDFCH	SGCCWT	SGPMAIN	SGPSUB
SGSVCX	SGAM	ASYCODE	ASYTAB	SGPOPT	MCRAS	SGSCVRT	SGIOS	SGCFCH	SGERP	SGAP	SGXECB	SGRM
SGATAB	SGEND	ISTRDWRA	IJLQTSVC	CCB	SGDSK	BTWAIT	SYSIO	SGSER	CRTSAV	MAPERPIB	MAPPUB2	IJLQDSCT
IPW$DPA	IPW$DPD	IPW$DDE	BDYBOX	MAPCOMR	ORE	MAPLOWC	IHBRDWRA					

OPTIONS FOR THIS ASSEMBLY - ALIGN, LIST, XREF, LINK, RLD, NODECK, NOEDECK

THE ASSEMBLER WAS RUN IN 196488 BYTES
END OF ASSEMBLY

```
// EXEC LNKEDT
```

```
JOB  $$A$SUPT  02/19/10    DOS LINKAGE EDITOR DIAGNOSTIC OF INPUT

ACTION TAKEN  MAP REL
LIST           PHASE $$A$SUPT,+0,NOAUTO
LIST   ENTRY
```

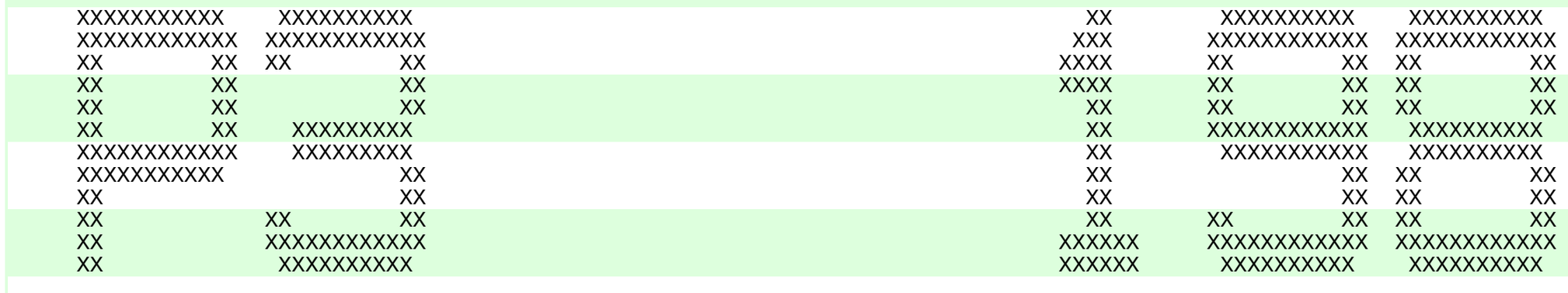
```
02/19/10   PHASE   XFR-AD   LOCORE   HICORE   DSK-AD    ESD TYPE   LABEL     LOADED   REL-FR

        $$A$SUPT   000000   000000   020FFF   014 09 0D CSECT      IJBSUP50  000000   000000   SELF RELOCATING
                                                      *   ENTRY    IJBPATCH  0005E0
                                                      *   ENTRY    IJB$$EOS  021000
                                                      *   ENTRY    IJB$$STP  021000
```

S T A T U S R E P O R T DATE: 02/19/10 (MM/DD/YY) TIME: 16.39 (HH.MM)

	STARTING ADDRESS C H R	NEXT ENTRY C H R E	LAST ENTRY C H R E	DIRECTORY ENTRIES ACTIVE	LIBRARY BLOCKS ALLOCTD	ACTIVE	DELETD	AVAIL	CONDENSE LIMIT BLOCKS	DIR.TRACKS OR LIBRARY CYLINDERS
SYSRES VOL.SER.DOSR34										
CORE IMAGE DIRECTORY	000 02 01	000 06 21	001 01 36	1630						30
LIBRARY	001 02 01	020 18 10	358 29 15		161070	6975	1824	152271	0	359

NUMBER OF ENTRIES IN SYSTEM DIRECTORY LIST: 127
SHARED VIRTUAL AREA ADDRESSES (HEX) START: EE8128 NEXT AVAILABLE LOCATION: F4ED48 END: FC6FFF

```
EOJ $$A$SUPT                                                    DATE 02/19/10,CLOCK 16/39/55,DURATION 00/00/16
```



********** END $$A$SUPT 00198 LAST DOSVS5P-V1R0M1 19 FEB 10 16.40.09 **********
********** END $$A$SUPT 00198 LAST DOSVS5P-V1R0M1 19 FEB 10 16.40.09 **********
********** END $$A$SUPT 00198 LAST DOSVS5P-V1R0M1 19 FEB 10 16.40.09 **********
********** END $$A$SUPT 00198 LAST DOSVS5P-V1R0M1 19 FEB 10 16.40.09 **********
********** END $$A$SUPT 00198 LAST DOSVS5P-V1R0M1 19 FEB 10 16.40.09 **********

```
********************     END   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.40.09   ********************
********************     END   $$A$SUPT   00198   LAST    DOSVS5P-V1R0M1     19 FEB 10   16.40.09   ********************
```