

HP-UX Software Status Bulletin

HP 9000 Series 300 Computers

HP Part Number 97005-90011



Hewlett-Packard Company

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PREFACE

The **SSB*** lists all known problems in the software product line designated on the cover page. These problems are derived from service requests (SRs) submitted by user's of these products.

There are two separate **SSB** reports contained in this edition. They are separated by a color divider page. Included are:

- Section 1 – Software Status Bulletin
- Section 2 – HPToday
- Section 3 – Networking
- Section 4 – OPENMAIL/ADVMAIL
- Section 5 – X11 Windows

All reports have the same organization and consist of five parts as listed below. Each report provides four different methods whereby the known problems can be indexed. The detailed SR reports are listed in part 5. The detailed SR report page numbers are located in the upper right hand corner of each column (printed two per page).

1 Software Release Contents (pg 11-12)

This section *lists the product names, numbers and update/fix levels for all the products* contained in this release. Products that have changed, or are new, are denoted with an asterisk preceding the product name.

2 Product Index (pg 13)

The product index provides the page number on which *detailed SR reports related to a specific product* can be found.

3 KPR Number Index (pg 14-17)

This index is a *sequential list of individual SR numbers* and the page on which they are found.

4 Keyword Index (pg 18-123)

This index is a *Keyword* sort of SRs. Each entry has a *one line description* of the SR and gives the page on which it is found.

5 Detailed SR Reports (pg 1-268)

Each report contains *all available information* relevant to the problem.

* The SSB is provided as a benefit of Hewlett-Packard's Account Management, Response Center, and Software Materials support subscriptions.



Product name	Product number	uu.ff	prev
3179G DISP. STATION	B1001A	07.00	00.00
3778 GATEWAY	98858A	03.00	00.00
3778 GATEWAY UPGRADE	98859A	03.00	00.00
5080 - USER UPGRADE	98856A	01.00	00.00
5080 EMULATOR	98855A	01.00	00.00
5080 GATEWAY UPGRADE	98857A	01.00	00.00
ADA BINDINGS COMMON	ADA-BINDA	00.00	00.00
ADA DS. - 9000/300	98860	04.35	03.25
ADA DS. - COMMON	ADA-DSA	04.35	03.25
ADA SOFTBENCH COMMON	ADA-SBA	00.00	00.00
ADA/300 BINDINGS	98889A	00.00	00.00
ADA/SOFTBENCH 300	92669A	00.00	00.00
AGP/DGL - MU	98600B	07.00	00.00
AXE 16 USER	98595B	07.00	00.00
AXE 2 USER	98515B	07.00	00.00
COBOL/HP-UX S300	35322B	02.00	01.05
COMMON LISP DEVELMNT	HP98678A	02.10	00.00
COMMON LISP EXCUTION	HP98679A	02.10	00.00
COMMON LISP II DE	98688	02.10	00.00
DESIG. JAPANESE FONT	98864A	02.00	00.00
DGL SKELETON	98683X	07.00	00.00
DISPLAY LIST	98674B	07.00	00.00
DOS COPROCESSOR SFTW	98531A	01.20	00.00
HP PROLOG 1.0	79232U	01.01	00.00
HP SQL/300	79725A	70.00	02.00
HPC++ COMMON	HPCPLUSPLUSA	02.00	00.00
HPC++ S300	B1691A	02.00	00.00
HPUX 6.2 SW BUNDLE	98594A	06.50	00.00
JAPANESE NL I/O	98861A	07.00	06.10
KOREAN NL I/O	98609A	07.00	06.10
LAN LINK 9000/300	98171A	00.00	00.00
OV NM SERVER 300 DEV	36985A	01.00	00.00
OV NM SERVER 300 RUN	36990A	01.00	00.00
PROG. ENVIRON. - MU	98597C	06.50	00.00
RJE/300	31447A	06.00	05.03
RJE/300	50967A	01.00	00.00
S300 GENERAL HPUX	98680B	06.05	00.00
SERIES 300 GKS	98672B	07.00	00.00
SIMP-CHINESE NL I/O	98851A	07.00	06.10
SIMPLEX KOREAN FONT	98610A	02.00	00.00
SIMPLEX T-CHINESE	98854A	02.00	00.00
SIMPLX JAPANESE FONT	98591A	02.00	00.00
SNA LU 6.2 300	98162A	00.00	00.00
SNA3270 300	36590A	03.20	00.00
SNA3270 300	36591A	03.20	00.00
SNA3270 300	36978A	00.00	00.00
SNA3270 300	36979A	00.00	00.00
SNA3770 300	36976A	07.01	00.00
SNA3770 300	98184A	01.10	00.00
SNA3770 300	98188A	01.10	00.00
SNALINK 300	36592A	03.21	03.20
SNALINK 300/GW	36593A	03.21	03.20
SOFT PC FOR 9000/300	98870A	01.30	00.00
SOFT PC FOR 9000/300	98870B	02.00	00.00
SOFT PC FOR 9000/300	98870C	03.00	00.00

Product name	Product number	uu.ff	prev
STARBASE RAD & RAY	98885A	01.00	00.00
STARBASE RAD & RAY	98885B	02.00	01.00
TRAD-CHINESE NL I/O	98853A	07.00	06.10
VERSATEC	98053A	05.20	00.00
VISUAL EDITOR	B1500A	01.00	00.00
X.25/300 LINK	36941A	07.00	02.00

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ADA SOFTBENCH COMMON	ADA-SBA	07/23/90	67
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COMMON LISP DEVELMNT	HP98678A	07/23/90	72
COMMON LISP EXCUTION	HP98679A	07/23/90	114
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1650041749	114	4000033605	81	4000034256	99	4000072603	22
1650042044	117	4000033613	82	4000034264	100	4000078683	115
1650043760	231	4000033621	82	4000034272	100	4000082677	22
1650050294	185	4000033639	82	4000034280	101	4000082727	22
1650057828	185	4000033647	83	4000034298	101	4000082792	23
1650074385	185	4000033654	83	4000034306	101	4000082909	24
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1650093351	187	4000033704	85	4000034355	103	4000089151	25
1650100172	187	4000033712	85	4000034363	103	4000089268	25
1650100230	188	4000033720	86	4000034371	104	4000089466	25
1650101246	188	4000033902	86	4000034389	104	4000089789	26
1650102194	189	4000033910	86	4000034397	104	4000089797	26
1650107045	234	4000033928	87	4000034405	105	4000089870	26
1650111666	189	4000033936	87	4000034413	105	4000089953	26
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4000095067	255	4700455444	118	4700822114	34	4700839761	54
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4000095091	256	4700539148	119	4700822148	35	4700843672	54
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4700883009	134	4700891952	149	4700894550	160	5000193656	112
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4700885749	141	4700893057	151	4700899401	162	5000233601	201
4700886150	16	4700893065	151	4700900092	162	5000236984	201
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4700889394	142	4700893487	152	4700904516	64	5000400846	204
4700889683	142	4700893495	153	4700905174	64	5000404012	205
4700890368	142	4700893503	153	4700905182	64	5000410191	205
4700890376	143	4700893511	153	4700905216	167	5000417394	206
4700890392	143	4700893529	153	4700906289	163	5000419028	206
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4700890947	67	4700893560	154	4700908509	163	5000429019	115
4700890962	68	4700893578	155	4700908517	163	5000430165	173
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- 300/800 COMMON - SSB ISSUE DATE: 07/23/90

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*****none*****	97089-XXXXX	00.00 Subject: bug in wc documentation	4000098558	2
AWK	97089-XXXXX	00.00 Errors in awk documentation.	4000023648	1
DOCUMENTATION	97089-XXXXX	00.00 Periph Inst Gde, give switch setting for 98550A when 98556A is added.	5000296855	2

- ADA DS. - 9000/300 - SSB ISSUE DATE: 07/23/90

*****none*****	98860	04.35 Object value corrupted by assignment of array with certain lower bound	4700822031	6
	98860	04.35 Abort never occurs without task reaching sync. point	4700821220	7
	98860	04.35 PROGRAM_ERROR may occur when lib pkg has record w/ dyn array components	4700839746	8
	98860	04.35 Unhandled exception in main subprogram incorrectly kills library tasks	4700842864	8
	98860	04.35 Incorrect aggregate for packed array of a subtype of Boolean	4700843680	10
	98860	04.35 The result of fixed point division is rounded down.	4700852830	11
	98860	04.35 UNIX_ENV not in predefined library as documented.	4700863688	12
	98860	04.35 File name expansion works incorrectly if working directory is /	4700868893	13
	98860	04.35 Incorrect slice assignment when target & source are ref. by same pointer	4700882399	14
	98860	04.35 FLU tools misbehave when arguments are 81 characters or longer.	4700883074	16
	98860	04.34 Ada Make utility does not work on Ada/300 release 4.35	4700882961	12
	98860	03.00 Constant folding should raise NUMERIC_ERROR but raises CONSTRAINT_ERROR	4000040410	3
	98860	03.00 Unhandled exceptions in a task may fail to produce a traceback.	4000047415	3
	98860	03.00 Poor error message when a subprogram does not conform with its spec	4000070938	5
	98860	03.00 The MACHINE_ROUNDS attribute is wrong for fixed point types	4000082925	6
	98860	03.00 ADDRESS returns bad value if applied to program unit not yet elaborated	4000056556	4
	98860	03.00 No STORAGE_ERROR (or user logged-off) for task stack limit exceeded	4000057836	4
ADA	98860	03.25 Shared memory utility "shmat" interferes with Ada heap	4700863746	13
RUNTIME	98860	04.35 Suppressing uncalled subprograms incorrectly turns on binder listing	4700877944	14
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00.00 FLU encapsulations may not run on remote data

*****none*****

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	HP98678A	01.00 pp-expand does not preserve SPECIAL declarations in locally (and let).	4000033985	89
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	HP98678A	01.00	LISP specific commands do not completely parse all CL systaxes.	4000033456	75
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	HP98678A	01.00 Save-world doesn't unwind bindings, save break state, update open files.	4000033969	88
	HP98678A	01.00 File names containing '\$' are not handled correctly.	4000034009	88
	HP98678A	01.00 Sys:*break-level-limit* & Sys:*break-limit-exceed-limit can work incorr.	4000034033	91
	HP98678A	01.00 Attempt to trace method on undefined type gives meaningless warnings.	4000034058	92
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	HP98678A	01.00 When ExMON is active, Lisp-a from 2nd window pops up ExMon in 2nd window	4000034132	95
	HP98678A	01.00 Stack overflow makes nmode window the bottom window.	4000034140	95
	HP98678A	01.00 Exec. Monitor does not allow changing the number of function return val.	4000034165	96
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*****none***** 79725A 01.01 FORTRAN preprocessor doesn't allow underscore in variable names 4700712463 123

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*****None*****	79725A	01.01	incorrect and nonexistent error msg (DBERR 3045) output	4700713743	123
	79725A	01.01	select while in unwritable directory causes abort from isql	4700714352	124
	79725A	01.01	ER to keep daemon from outputting errors to /dev/console	4700720177	124
	79725A	01.01	Internal error occurs in a query with 2 aggregates in an expression.	4700740589	124
	79725A	01.01	For certain decimal type fields, negative numbers are stored as positive	4700743401	125
	79725A	01.01	4053 on an update of a table with multiple indexes	4700747246	126
	79725A	01.01	DBCORE 285 caused by application with CS (or RC) and ORDER BY clause.	4700748368	126
	79725A	01.01	With NEO operator, tuples w/ unknown search condition value are returned	4700753293	126
	79725A	01.01	Query with 13 between clauses fails with DBCore Internal Error 216.	4700768077	127
	79725A	01.01	ISQL help text examples should display the semicolon at end of command.	4700776633	127
	79725A	01.01	Incorrect error msg from ISQL when ran out of disk space for tmp file.	4700776641	128
	79725A	01.01	Problem with using ISQL on 700/43 terminals	4700777813	128
	79725A	01.01	hpbdaemon dies on CONNECT (error 1067) on S300 w/ floating pt accel.	4700778951	129
	79725A	01.01	After update or delete, opened cursor reads old data within transaction.	4700793570	129
	79725A	01.01	Data corrupted on 2048 byte when entering char string > 2048 bytes	4700803395	129
	79725A	01.01	Query result was sorted in ASC order although DESC was specified.	4700820704	130
	79725A	01.01	The bugcatcher on the 300 aborts with segmentation violation	4700829655	130
	79725A	01.01	ISQL is not checking for overflow on a 4 byte FLOAT.	4700849927	131
	79725A	01.01	DBERR 8207 returned by SHOWDBE command in SQLUTIL.	4700869537	131
	79725A	01.01	DBERR 13262 and RC 196 on SELECT w/ IN predicate during regression test	4700876060	133
	79725A	01.01	ISQL: Entering 'non-existent' command gives DBERR 2102	4700883322	136
	79725A	01.01	C preprocessor appears to cause byte alignment problems with application	4700901470	137
	79725A	01.01	ALLBASE is not catching the error when Long Field output device too long	4700902122	138
	79725A	01.00	Must enter EXIT; a few times to exit ISQL when user #2 does a STOP DBE	4700883306	135
	79725A	01.00	Preprocessing "C" application with LANG=korean gives DBERRs 10908/11014.	4700892612	137
	79725A	01.00	wrong user used by sql for authorization after an su was done	5000260547	138
	79725A	00.00	we need to raise the minimum number of log pages allowed	4700441717	118
	79725A	00.00	'unload to external...' from cmd file requires all params on one line	4700451161	118
	79725A	00.00	illegal syntax error generated due to bigfile processing	4700455444	118
	79725A	00.00	installation module size not compatible with that of hp sql/800	4700481937	119
	79725A	00.00	BULK FETCH bug. Can only retrieve a certain number of rows.	4700539148	119
	79725A	00.00	LOAD command failing when pattern matching specified	4700552232	120
	79725A	00.00	negative numbers improperly sorted by ORDER BY	4700579508	120
	79725A	00.00	multi-table joins may cause memory allocation failures	4700590638	121
	79725A	00.00	incorrect error msg when using isql from directory w/bad permissions	4700594275	121
	79725A	00.00	unload command with embedded select stmt causes syntax error	4700594309	121
	79725A	00.00	internal error msg returned for < minimum log pages on start dbe	4700664219	122
	79725A	00.00	C compiler cannot resolve symbols when linking more than 1 object file.	4700687905	122
	79725A	00.00	Missing tuple in a multi-user KC test	4700875468	131
	79725A	00.00	DBCORE error 2060 from aci_fetchc (reproducible through Info Access)	4700876516	133
	79725A	00.00	Large variable index keys do not work correctly.	4700882936	134
	79725A	00.00	chunkfile existence not being verified in rolforward recovery	4700883009	134
	79725A	00.00	DBCore Internal Error 1057 returned when log full during SORT.	4700883033	135
	79725A	00.00	HPDBDAEMON needs to be more robust in its error handling	4700886796	136
	79725A	00.00	ISQL exhibits transaction errors when loading large table from external.	4700688226	122

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*****None***** 79725-90014

88.02 Compilation statement specifies libraries in incorrect order.

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*****none*****	HPCPLUSPLUSA	02.00	unnamed bit fields are initialized, even in ANSI mode (+al).	4700880393	140
	HPCPLUSPLUSA	02.00	Cfront will selectively ignore the extern "C" keyword.	4700890376	143
	HPCPLUSPLUSA	02.00	hp C++ translator alpha 1 produces bad math, see example file	4700890392	143
	HPCPLUSPLUSA	02.00	Pointers to members are not always assignable to "zero".	4700890830	143
	HPCPLUSPLUSA	02.00	Cfront allows a const object to not be passed to non const member func.	4700890848	144
	HPCPLUSPLUSA	02.00	Bad debug info if only the enum tag from a class is referenced	4700891754	145
	HPCPLUSPLUSA	02.00	Forward struct references in inner scopes cause problems	4700891762	145
	HPCPLUSPLUSA	02.00	Cfront generated names are visible in the debugger	4700891770	145
	HPCPLUSPLUSA	02.00	Cfront does not complain about anon member and local var with same name	4700891788	146
	HPCPLUSPLUSA	02.00	warning, not error, given for item declared as both signed and unsigned	4700891804	146
	HPCPLUSPLUSA	02.00	Cfront doesn't support floats-as-floats in translator mode	4700891838	147
	HPCPLUSPLUSA	02.00	demangler does not handle leading _ correctly on s300s	4700891887	147
	HPCPLUSPLUSA	02.00	Corrections to Programmers Guide	4700891895	148
	HPCPLUSPLUSA	02.00	incorrect debug info emitted for local static cfront temps	4700891911	148
	HPCPLUSPLUSA	02.00	parms which are arrays of arrays have bad debug info (compiler bug too)	4700891929	148
	HPCPLUSPLUSA	02.00	The C code emitted by HP C++ contains many extra #line directives	4700891937	149
	HPCPLUSPLUSA	02.00	Cfront does not emit definition for static data member of local class	4700892984	150
	HPCPLUSPLUSA	02.00	function call returns wrong value	4700892992	150
	HPCPLUSPLUSA	02.00	pointer to the virtual table is being copied when it should not be	4700893016	150
	HPCPLUSPLUSA	02.00	Cfront crashes when calling static function inherited from virtual base	4700893073	151
	HPCPLUSPLUSA	02.00	Cfront puts out incorrect warnings about integral type compatibility.	4700893099	151
	HPCPLUSPLUSA	02.00	The debugger does not understand the void data type	4700893107	152
	HPCPLUSPLUSA	02.00	CC crashes (null pointer deref) on "<unaryop> <operator int>"	4700893206	152
	HPCPLUSPLUSA	02.00	Wide string literals are unimplemented	4700893503	153
	HPCPLUSPLUSA	02.00	Enum's aren't scoped properly	4700893511	153
	HPCPLUSPLUSA	02.00	Cfront allows duplicate declarations of enum's	4700893529	153
	HPCPLUSPLUSA	02.00	Incorrect handling of redefinition of classes in blocks	4700893537	153
	HPCPLUSPLUSA	02.00	Cfront does not catch calls to main, violation of sec. 3.4 in ref manual	4700893545	153
	HPCPLUSPLUSA	02.00	Cfront does not correctly mangle member funcs. for tagless classes	4700893552	154
	HPCPLUSPLUSA	02.00	uninitialized reference member gets error	4700893560	154
	HPCPLUSPLUSA	02.00	reference to type void should get error	4700893578	155
	HPCPLUSPLUSA	02.00	redefinition of enum tag name in inner scope not allowed	4700893586	155
	HPCPLUSPLUSA	02.00	Cfront using +d option works incorrectly.	4700893628	155
	HPCPLUSPLUSA	02.00	CC doesn't find virtual abstract function in base class	4700893669	157
	HPCPLUSPLUSA	02.00	Cfront does not complain about anon member and local var with same name	4700894113	157
	HPCPLUSPLUSA	02.00	Cfront does not handle static anonymous unions properly	4700894121	157
	HPCPLUSPLUSA	02.00	Variable with the same name as a label is not emitted.	4700894139	157
	HPCPLUSPLUSA	02.00	Invalid code generation for pointers to static members.	4700894154	158
	HPCPLUSPLUSA	02.00	Link-time unsat for derived class ptbl when using +e0/+el facility	4700894162	158
	HPCPLUSPLUSA	02.00	xdb may print the incorrect value for members of a virtual base class	4700894535	159
	HPCPLUSPLUSA	02.00	problems when debugging inlined function compiled with -gl	4700894543	159
	HPCPLUSPLUSA	02.00	debugger thinks that two static functions with same name are overloaded	4700894550	160
	HPCPLUSPLUSA	02.00	allows declaration of uninitialized const structs, classes, & unions	4700897009	160
	HPCPLUSPLUSA	02.00	member function declared volatile treated same as const	4700897017	160
	HPCPLUSPLUSA	02.00	initialization of union unimplemented	4700898460	161
	HPCPLUSPLUSA	02.00	line numbers not monotonic for inlined constructor	4700898478	161
	HPCPLUSPLUSA	02.00	debugger fails to perform object identification in some cases	4700898486	161
	HPCPLUSPLUSA	02.00	xdb++ may give an internal error if you use a pointer to a data member	4700898494	161
	HPCPLUSPLUSA	02.00	Typedef altered by cfront that invalidates future declarations	4700898734	161

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*****none*****	HPCPLUSPLUSA	02.00 initialization of AUTO struct (using +al) gets bus error.	4700899401	162
	HPCPLUSPLUSA	02.00 confusion occurs when a class name is typedef'ed inside a class.	4700900092	162
	HPCPLUSPLUSA	02.00 Stream operator<< occasionally appends garbage to output string.	4700900100	162
	HPCPLUSPLUSA	02.00 cfront does not catch access violation when accessed mem is overloaded.	4700900118	163
	HPCPLUSPLUSA	02.00 <string> is missing prototype for "strerror()".	4700906339	163
	HPCPLUSPLUSA	02.00 Misleading message when a break occurs within {} in a switch statement.	4700906339	163
	HPCPLUSPLUSA	02.00 Generated code jumps to address 0 instead of to virtual function.	4700906347	163
	HPCPLUSPLUSA	02.00 not implemented 2012: general initializer in initializer list	4700908491	163
	HPCPLUSPLUSA	02.00 Bad C code generated with +d for class declared within a class	4700908509	163
	HPCPLUSPLUSA	02.00 garbled error message 1227 and internal error 3058 and bus error	4700908517	163
	HPCPLUSPLUSA	02.00 internal error 3058: bus error for simple syntax error	4700908525	164
	HPCPLUSPLUSA	02.00 not implemented 2020: cannot expand inline function with static var	4700908533	164
	HPCPLUSPLUSA	02.00 no "arg not used" warning for array args	4700908541	164
	HPCPLUSPLUSA	02.00 internal error 3111: can't find vptr for some nested class definition	4700908558	164
	HPCPLUSPLUSA	02.00 unclear constructor-argument error messages for normal errors	4700908566	164
	HPCPLUSPLUSA	02.00 phrase "struct A" can't be used in a type cast in struct A definition	4700908574	164
	HPCPLUSPLUSA	02.00 xdb++ -- empty classes show a member "wl"	4700908582	164
	HPCPLUSPLUSA	02.00 prototype for "select" in sys/time.h is wrong.	4700916536	164
	HPCPLUSPLUSA	02.00 Missing function prototype for XInitImageFuncPtrs (libX11.a).	4700916585	164
	HPCPLUSPLUSA	02.00 Bad function prototype for stats: 2nd param should be struct stats *.	4700916627	164
	HPCPLUSPLUSA	01.00 Need to build libc.ansi.a and add this file to the file set	4700886598	141
	HPCPLUSPLUSA	00.06 assignment to data member overwrites virtual base class pointer	4700891945	149
	HPCPLUSPLUSA	00.04 DNT LABEL's address field not set correctly	4700880401	140
	HPCPLUSPLUSA	00.04 passing function pointer as parameter causes internal error	4700880419	140
	HPCPLUSPLUSA	00.04 cfront creates this pointer for static member function	4700883066	141
	HPCPLUSPLUSA	00.04 Can't view inline function using v command to xdb++	4700891903	148
	HPCPLUSPLUSA	00.03 Compile time for HPC++ is 2-3 times slower than bare cfront	4700885749	141
	HPCPLUSPLUSA	00.03 CC +al generates bad C code -- cc fails	4700887976	141
	HPCPLUSPLUSA	00.03 HP C++ P.G. has wrong info for linking with F77 libraries	4700887992	142
	HPCPLUSPLUSA	00.03 CC doesn't cast 0 to an array type	4700888925	142
	HPCPLUSPLUSA	00.03 Struct member w/in struct not declared in generated C code.	4700889394	142
	HPCPLUSPLUSA	00.03 Should be error to init const pointer to non-const data with const data	4700891879	147
	HPCPLUSPLUSA	00.03 Compiling with +d and -g is ~60% slower than just -g	4700891952	149
	HPCPLUSPLUSA	00.03 xdb++ gets array parameters wrong	4700891960	149
	HPCPLUSPLUSA	00.03 CC +w: cc warning for virtual function call	4700891978	149
	HPCPLUSPLUSA	00.03 CC +al: cc warning for function ptr assignment	4700891986	149
	HPCPLUSPLUSA	00.03 Format of CC error/warning messages is confusing	4700892018	150
	HPCPLUSPLUSA	00.03 typedef of unsigned long within func does not work.	4700893057	151
	HPCPLUSPLUSA	00.03 Destructor cannot delete pointer to class returned by inline func.	4700893065	151
	HPCPLUSPLUSA	00.03 Help for xdb++ does not contain any of the new C++ functionality	4700893131	152
	HPCPLUSPLUSA	00.03 CC gives warning when deleting &reference	4700894196	159
	HPCPLUSPLUSA	00.03 spurious error for initialized array parms	4700894204	159
	HPCPLUSPLUSA	00.03 Duplicate symbol _exit in /lib/libp/libc.a with CC -p	4700899393	162
	HPCPLUSPLUSA	00.03 Math.h lacks decls for abs(int) and abs(double), incompatible with ATT	4700917161	164
	HPCPLUSPLUSA	00.02 names are given to nameless classes in debug information	4700891853	147
	HPCPLUSPLUSA	00.02 array of class objects containing const enum causes bus error	4700893081	151
	HPCPLUSPLUSA	00.02 error for given for legal use of overloading	4700893495	153
	HPCPLUSPLUSA	00.02 incorrect warning given for overloading based on enum vs. int.	4700893651	156
	HPCPLUSPLUSA	00.02 redefinition of default argument not caught as error by cfront	4700894147	158

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*****none*****	HPCPLUSPLUSA	00.02 like-named classes in two different functions disallow ptr to member	4700894188	159
	HPCPLUSPLUSA	00.02 string++ class name (String) conflicts with X11 typedef.	4700894212	159
	HPCPLUSPLUSA	00.01 Can't compile with <starbase.c.h>. Undefined c_draw2d(), c_move2d().	4700879403	140
	HPCPLUSPLUSA	00.01 cannot find function symbols for nameless class	4700891846	147
	HPCPLUSPLUSA	00.01 initialization not required for const non-external struct	4700893008	150
	HPCPLUSPLUSA	00.01 overloading new works inconsistently for arrays (see related file).	4700893156	152
	HPCPLUSPLUSA	00.01 cfront allows user to define body for pure virtual function!	4700893487	152
	HPCPLUSPLUSA	00.01 CC gets internal error on abstract virtual operator declaration.	4700893610	155
	HPCPLUSPLUSA	00.01 pure virtual functions incorrectly require definition	4700893636	156
	HPCPLUSPLUSA	00.00 sys/ns ipc.h file not converted for HP C++	4700879411	140
	HPCPLUSPLUSA	00.00 no include file for net_aton or net_ntoa(3N)	4700880427	141
	HPCPLUSPLUSA	00.00 merger is zapping out SRCFILE entries that should not be zapped	4700884270	141
	HPCPLUSPLUSA	00.00 cfront occasionally does not type-cast act. arg to float formal parm.	4700889386	142
	HPCPLUSPLUSA	00.00 yacc++ generates warning messages about code in yaccpar.	4700889683	142
	HPCPLUSPLUSA	00.00 Cfront core dumps in making a long signature name	4700890368	142
	HPCPLUSPLUSA	00.00 scope of names redeclared in inner scope sometimes leads to surprise	4700891796	146
	HPCPLUSPLUSA	00.00 xdb gets Internal Error when try to search for pattern in yyparse	4700893180	152

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*****none*****	B1691A	02.00 <stdarg> macros don't work on the 300 if the last parm is a reference.	4700902734	165
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- LANG MNL 300/800 - SSB ISSUE DATE: 07/23/90

*****none*****	98597-XXXXX	00.00 Better description of FORTRAN and dynamic memory	5000151415	166
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- OV NM SERVER 300 DEV - SSB ISSUE DATE: 07/23/90

*****none*****	36985A	01.00 sieve manager is not deleting obsolete sieves	4700905216	167
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*****none*****	98794A	07.00 man pages on AXE are missing, and don't work anyway	4000095190	171
	98794A	06.06 Missing asterisks in sigsetops(3C) manual entry in SYNOPSIS	4000094631	170
	98794A	06.05 missing acentrystart(3C) link to strtoc(3C) manual entry (oops)	4000094342	169
	98794A	06.05 truncate(2) still contains an invalid BUGS section;	4000094615	169
	98794A	06.05 open(2), close(2) (and others?) don't mention behavior w.r.t. sockets	4000094623	169
	98794A	06.05 typo, affect should be effect	4000094656	170
	98794A	06.05 Man page: "b" command shows wrong syntax for [count] (should be [\count])	4000094664	170
	98794A	06.05 iomap man page example contains /n instead of \n	4000094938	170
	98794A	06.05 mount (1M) manpage example options not in same order as SYNOPSIS	4000096115	171
	98794A	06.05 group(4) should be linked to loggingroup(4)	4000098293	171
	98794A	06.05 setsigmask(2) Manual entry refers to signal(5) Does not exist!	4000098301	172
	98794A	06.05 Doesn't document "-a" option	4000098343	172
	98794A	06.02 Sys Admin Manual says do gettools with floppy 8, should be floppy 3	4000090860	168

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*****none*****	98794A	00.00 Documenting "lpadmin -g" as setting print job priority.	4000098327	172
CHECKLIST	98794A	06.05 Sys Admin Manual contains incorrect example of editing checklist file.	5000484360	176
CU	98794A	06.05 The suspend feature of cu is not completely documented	5000489187	177
DOCUMENTATION	98794A	06.05 Incorrect command for copying from one root disk to another.	5000462242	175
	98794A	06.02 System admin manual misname device bit	4000091702	168
	98794A	06.02 Explain the difference between symbolic links and hard links.	5000461467	174
	98794A	06.02 Peripheral guide recommends wrong cable for use with built-in RS232	5000467480	175
	98794A	06.00 System admin. manual documents checklist wrong.	5000461822	174
	98794A	03.01 Change man page entry and HP-UX Reference Vol2 Sec5 from /usr/lib/term	5000475186	176
	98794A	02.00 cursor not correctly documented	4000023770	168
	98794A	01.00 Add terminfo for the 35741 interfaced with the 98543A	5000170381	172
FIND	98794A	06.02 The find(1) manual entry does not warn about Context-Dependent Files.	5000420307	173
STARBASE	98794A	06.02 the README FIRST for 6.02 incorrectly documents Pdriver	5000430165	173

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*****none*****	50967A	01.00 If the background process cannot access rje_joblog, user waits 90 sec.	4000027565	181
	50967A	01.00 RJE/300 does not work with long file names	4000084970	181
	50967A	01.00 Binary files of certain lengths sent incorrectly using ~ control lines	4000093039	181
COMM	50967A	01.00 rje_bg or rje_router can hang writing job notification to PTY terminal	4000093492	182
	31447A	05.03 Crash when receive null block from IBM	9999005459	180
	31447A	04.01 System crash while doing a send message	9999005359	180
COMMANDS	31447A	05.02 RJE USING "commandfile" does not work.	9999005225	180
OS	31447A	04.01 Problem W/RJE -Configured for 2780 emulation s/be no space compression.	9999004824	178
RJE300	31447A	05.02 Command file from workstation causes crash after SIGNON.	9999005048	179
	31447A	04.01 First 15 bytes of message not transmitted.	9999004825	178
	31447A	04.01 Unreasonable errors occur with Edit Commands softkey.	9999004826	178
	31447A	04.01 Executive command receive error.	9999004848	178
	31447A	04.01 The S in SELECT SOFTKEY truncated from message window.	9999004961	179
	31447A	04.01 Error Automatic Receive, on Receive file invalid.	9999004997	179
	31447A	04.01 Crash during file transfer from 250 to 300.	9999005097	180
SF18	31447A	05.02 RJE Using "commandfile" causes crash.	9999005230	180

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*****none*****	98680B	06.05 Invalid form in recognize array: During reg alloc because of common sub.	4000094060	191
	98680B	06.05 cc -O chokes on the appended code.	4000096487	192
	98680B	06.05 C1 internal error in "function": illegal leaf node 49	4000097451	193
	98680B	06.05 no table entry for op REG (unoptimized - submitted by W. Underwood)	4700879924	195
	98680B	06.05 'diff-e' led - results in 2-byte file ("?\n") -- unusual case	4700901041	195
	98680B	06.05 C1 internal error in "xxx": unknown optype passed to find().	5000538983	225
	98680B	06.05 C compiler error: register allocation error	5000538991	226
	98680B	06.05 Using pg "\n" preceded by "\0" doesn't produce new line.	5000539379	226
	98680B	06.05 different results with -O	5000542357	227
	98680B	05.21 NROFF STORAGE CAPACITY IS TOO SMALL	5000417394	206
	98680B	05.02 PAM does not work properly with 98700 stations.	5000244236	202
	98680B	03.01 Special handling needed for SR #1650102194. See labtext.	1650102194	189

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	98680B	03.01		Intermittent symbolic links created during support tape initialization	4700788505	194
	98680B	03.01		SAM incorrectly translates mux0 driver LU in special file minor number	5000482943	212
	98680B	03.00		"type clash" error points to wrong production	4000097865	193
	98680B	03.00		In SAM, need an optional field for passwd while setting up UUCP	5000419028	206
	98680B	02.01		lint false errors on missing library entries mkdir(2) and rename(2)	1650074385	185
	98680B	02.01		acctcom(1) doesn't properly report command exit status codes -- ATT	5000440180	208
	98680B	02.00		Enhancement request to increase the number of files sort can handle	5000397711	203
ACCOUNTING	98680B	06.05		acctcom(1M) shows time one hour earlier than -e or -s option specified	1650101246	188
AR	98680B	06.05		ar(1) does not accept long filenames	5000476200	210
AXE	98680B	06.05		AXE lp scheduler tries to use mail(1) but mail is not in AXE	5000523977	224
	98680B	06.00		axe system doesn't have tty command used by lp spooler scripts	5000400846	204
BACKUP	98680B	06.05		ar(1) does not accept long filenames	5000476200	210
BOOTSYS	98680B	03.11		Special handling required for SR #5000121756. See labtext.	5000121756	196
C	98680B	05.20		Math routine, pow, does not handle overflow correctly.	4000092437	191
CATMAN	98680B	05.21		Running catman(1) at high priority (with "nice") causes system errors.	5000236984	201
COL	98680B	06.05		tbl nroff col gives box with staggered line on LaserJet	1650100230	188
COMPRESS	98680B	05.15		(un)compress may not retain modification time	5000216697	197
CPIO	98680B	06.05		cpio(1) reads table of contents on only one side of optical media	5000527226	224
	98680B	06.02		"cpio" fails to read archive when executed via "remsh"	5000503318	222
	98680B	06.05		need to change the effective use of \ in crontab	5000470922	210
CRON	98680B	05.20		Csh(1) documentation in error about some features.	1650040139	183
CSH	98680B	05.20		there is no environment passed when using ~ and cu	1650100172	187
CU	98680B	05.05		cu(1) doesn't transmit cursor movement escape codes correctly in vi	5000505990	222
CURSES	98680B	06.05		bus error in program on 300 using curses and shared memory allocation	5000495978	214
	98680B	05.05		CONFLICT BETWEEN CURSES, SIGVECTOR AND SETITIMER	5000280461	202
DD	98680B	06.05		dd(1) will not read from a 9145 cartridge tape, but tar and tcio will	5000510636	223
	98680B	00.00		Problem with dd with seek and mag tape	4000019570	190
DELTA	98680B	05.03		Delta(1) hangs when reading files with very long lines.	5000228635	200
DISC	98680B	06.05		du -s on NFS-mounted directory on SUN disk reports in 256-byte blocks	5000496729	215
	98680B	06.05		application program cannot open character special file for 9122D	5000503300	221
DOCUMENTATION	98680B	06.05		configuration ref. manual is not current nor complete	5000511394	223
	98680B	00.00		Problem with dd with seek and mag tape	4000019570	190
ED	98680B	06.02		ed(1) does not work on files larger than 128k	5000519504	223
EX	98680B	06.05		CTAGS not processing if's properly	5000502997	219
FDB	98680B	06.02		FDB does not handle array parameters correctly	1650088997	186
FILE	98680B	06.05		"find" command fails to check context dependent files	5000476200	210
FIND	98680B	06.05		ftio does not work with 7979 tape drive	5000500520	217
FTIO	98680B	06.05		chgrp(1) and newgrp(1) don't handle \ in /etc/groups correctly	5000478107	211
FUSER	98680B	06.05		kernel should always check either euid or ruid - be consistent	5000445296	209
KERNEL	98680B	06.05		kernel parameter shmbrk should not affect size of kernel data structures	5000496885	216
	98680B	06.05		dd(1) write to 7959 scsi disk returns error on last block	5000523605	224
	98680B	06.05		problem with timeouts in the Korn shell when in the vi editor	5000481465	211
KSH	98680B	06.05		ksh(1) when trap on exit from a child in vi(1), terminal locks up	5000493288	212
	98680B	06.05		ksh(1) with m option does not handle background processes as expected	5000496430	214
	98680B	06.00		.sh history does not come up as default	5000397737	203
LIBM	98680B	05.20		Math routine, pow, does not handle overflow correctly.	4000092437	191
LIFCP	98680B	05.03		Lifcp with BDAF files not properly documented.	5000220160	198

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- S300 GENERAL HPUX - SSB ISSUE DATE: 07/23/90

Keyword	Product number	uu.ff	Description	KPR number	page
LINT	98680B	06.02	lint gives unexpected error messages	1650082529	186
LOGIN	98680B	02.00	People may appear logged in when they are not.	4000003756	189
	98680B	02.00	Very long fields in /etc/passwd mess up login.	4000003830	190
LP	98680B	06.05	"lost connection" with remote spooling makes file lpd.log fill up disk	4000097428	193
	98680B	06.05	lp to a 2563 printer inserts extra form feeds	5000501296	218
	98680B	06.05	Permissions on lp(1) are incorrect.	5000547547	227
	98680B	06.02	Cannot do raw output to serial device using the hp2686a model script	5000448654	209
	98680B	06.02	lpstat generates bad output when IO is redirected	5000465161	209
	98680B	06.00	Line printer hangs	5000396648	203
	98680B	06.00	LP -W SOMETIMES FAILS TO SENDS MAIL TO PROPER USER	5000410191	205
	98680B	06.00	Lpr script doesn't correctly handle the -R option	5000420117	207
	98680B	05.05	Slp(1) doesn't allow "-a" and "-d" options together.	5000233601	201
MAIL	98680B	06.05	AXE lp scheduler tries to use mail(1) but mail is not in AXE	5000523977	224
MAN	98680B	06.02	"man -t" gives core dump.	1650040147	184
MKDIR	98680B	06.05	mkdir has undocumented limit of 1000 sub directories	5000477828	211
MKMF	98680B	06.05	MKMF SHOULD UNDERSTAND SCCS FILES	5000529883	225
MKRS	98680B	06.05	modify mkrs to work with the optical disc	5000471979	210
MM	98680B	05.03	MM ignores Bolding.	5000224683	199
MOUNT	98680B	06.05	mount(1), df(1) say device mounted if its minor number same as root disk	5000493478	213
	98680B	05.21	Rev 5.2 mount(1) doesn't work with floppy discs.	5000225904	200
NROFF	98680B	06.00	nroff hangs on specific input file	5000404012	205
	98680B	05.14	problems using table for matting and interactive text together	5000192682	197
PASCAL	98680B	04.00	NROFF does not support any printers except the obsolete 2631B.	4000017020	190
PASSWD	98680B	03.11	Special handling required for SR #5000121756. See labtext.	5000121756	196
PWD	98680B	02.00	Very long fields in /etc/passwd mess up login.	4000003830	190
REMSH	98680B	06.05	"pwd" command reports wrong path for symbolic link over "netunam" command	5000527929	224
RMNL	98680B	06.02	disless 300 using remsh and tcio to rename files on remote tape fails	1650111666	189
SAM	98680B	06.02	return code from "rmnl" is incorrect.	5000437129	208
SCCS	98680B	06.05	SAM requires sequential logical unit numbers, cannot skip one	5000474841	210
SH	98680B	05.01	Problems with sccs and files larger than 3.35 megabytes	5000170340	196
	98680B	06.05	sh(1) loses positional parameters when executing "script params"	5000508911	222
	98680B	06.00	Report of shell script that results in unexpected logout when run	1650050294	185
	98680B	05.20	cannot boot from 5.21 recovery system	5000221259	199
SHUTDOWN	98680B	06.05	"init s" or "shutdown 0" causes error message "HOME variable not set"	5000493999	213
STARBASE	98680B	03.10	sleep(2) followed by gopen(3) generates core dump	5000503367	222
TAR	98680B	06.05	tar(1) creates files with // in front of file name	5000484378	212
TBL	98680B	06.00	"tbl" doesn't produce proper looking boxes on laser jet printer	1650057828	185
TCIO	98680B	06.02	disless 300 using remsh and tcio to rename files on remote tape fails	1650111666	189
TSORT	98680B	05.03	Tsort(1) generates spurious output line when processing long file names.	5000232702	200
UMOUNT	98680B	06.02	AMOUNT DOES NOT REMOVE TMP FILES	5000419770	206
UPDATE	98680B	06.05	/ETC/MAGIC ALWAYS GETS OVERWRITTEN DURING AN UPDATE	1650093351	187
UUCP	98680B	06.02	the -j and -o options to uustat return an illegal option message	5000436899	207
VI	98680B	05.15	Problem with terminfo and vi using 2392Sa	5000198770	197
	98680B	05.02	PROBLEM WITH UNDO FOR GLOBAL CHANGES IN MACROS IN VI	1650093328	186
XARGS	98680B	05.21	Xargs(1) of more(1) doesn't work as documented.	1650041160	184

- SNA3270 300 - SSB ISSUE DATE: 07/23/90

*****none***** 36590A

03.10 SA msg queues should be created with permissions 660, not 666

4700667626 229

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Keyword	Product number	uu.ff Description	SSB ISSUE DATE: 07/23/90	KPR number	page
*****none*****	36590A	03.10 sa_sna3270 spins if given a remotesplit hostname (hpindlb:ibm)		4700667634	229
	36590A	02.10 SNA3270 causes the 800 to lock up and hang.		5000443366	229
	36591A	03.11 SNA3270 uses some help messages reserved for the Nuc.		4700667600	231
	36591A	03.10 Power off LU, send LUSTAT. Power on lu, send Notify ON. This is wrong.		1650043760	231
		- SNA3770 300 - SSB ISSUE DATE: 07/23/90			
*****none*****	98184A	01.01 AS SOON AS MON3770 SEES TRN IN A PUNCH FILE, IT STOPS INTERPRETING DATA		1650091587	233
	98184A	01.00 JES3 receives Invalid FM header from host with recommended logmode		4700714915	233
	98188A	01.01 Enhancement: Enabling padding with trailing blanks, as real device does.		1650107045	234
		- SNA3270 300 - SSB ISSUE DATE: 07/23/90			
*****none*****	36592A	03.21 system panic when SNALink is installed and PSIDAD is run		5000520528	236
	36592A	03.21 Snauc fails when the host sends ua an second snrm.		5000542688	237
	36592A	03.20 if LU name is 8 chars, field formatting messed up in snarpt		4700734566	236
	36592A	03.10 if SA nucleus is dead, error messages aren't very friendly		4700667568	235
	36592A	00.00 When only 1 lu is defined in the config file, X-f occurs when a key hit		4700420307	235
	36592A	00.00 Session, file transfer, and character drop problems with SNALINK.		4700474577	235
		- SNA3270 300/GW - SSB ISSUE DATE: 07/23/90			
*****none*****	36593A	03.20 SNALink install script fails on AXE systems which lack /usr/bin/id		4700733758	241
	36593A	03.10 ALPHA-SITE: Mod-2 BIND image rejected by SNALink/SNA3179G.		4700667519	238
	36593A	03.10 Incorrect processing of COMM504 when in an SSCP-LU session.		4700667576	239
	36593A	03.10 Incorrect generation display codes when COMM 504 occurs in LU-LU session		4700667584	240
	36593A	03.10 Incorrect msg "sna3270 for LU X is being ordered to terminate."		4700667618	240
	36593A	03.10 snalink has snamchk226: mchk end: code:901 file:./queue/dqemgr.c		4700674499	240
	36593A	00.00 Request to allow more valid PSERVICE parameters in logmode table.		4700419606	238
		- SOFT PC FOR 9000/300 - SSB ISSUE DATE: 07/23/90			
*****none*****	98870A	01.03 Turbo Prolog under CGA emulation broken.		4000094904	252
	98870A	01.03 ExecutiveMemomaker won't work. Too many file handles. config.sys OK.		4000094912	253
	98870A	01.03 Drawing Gallery drops character when entering a text string.		4000094920	253
	98870A	01.03 Cannot install Lotus 123 using SlavePC.SCR100		4000095026	253
	98870A	01.03 Mouse user interface is unfriendly, can be hard to use SCR55, SCR163		4000095034	254
	98870A	01.03 Escape character does not exit demo mode properly MS Flight Sim., SCR161		4000095042	254
	98870A	01.03 Sailing game will not run, encounters illegal instruction.SCR168		4000095059	255
	98870A	01.03 Advance Link won't install from floppy drive A: SCR170		4000095067	255
	98870A	01.03 The SoftPC cursor was the wrong color with some applications.SCR42		4000095075	255
	98870A	01.03 Graphics problems with text in pc mode 40, with Willy game.SCR102		4000095083	255
	98870A	01.03 Problems updating complete screens of video memory.SCR167		4000095091	256
	98870A	01.03 Round42 game has slow and bad graphics SCR169		4000095109	256
	98870A	01.03 PrintMaster program will not run from the FSA drive, E:, SCR172		4000095117	256



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Keyword	Product number	uu.ff Description	KPR number	page
*****none*****	98870A	01.03 Mouse attached to Smalltalk V Application is inoperative	4000095448	257
	98870A	01.03 Crosstalk XVI doesn't work with PC bulletin board yellow pages, SCR#162	4000095455	257
	98870A	01.03 Graphics problem with Typ-Set, bad characters and backgrounds, SCR#86	4000095463	257
	98870A	01.03 The scenery flashes when using MS Flight Simulator, SCR205	4000095505	258
	98870A	01.03 MS Windows does not list files selectively with WIN DRAW command, SCR202	4000095588	258
	98870A	01.03 The right hand alt key doesn't work, SCR232	4000095695	259
	98870A	01.03 Crosstalk XVI has timing problems, SCR162	4000095810	259
	98870A	01.03 executing cat890511.exe from hpccf gets "CRC Error" (works on XT)	4000096206	259
	98870B	02.00 Mouse driver: current version is old/doesn't work properly w/new apps.	4700887851	263
	98870A	01.03 using softpc p 3-4 implies all home directories in /users.	4000093757	251
	98870A	01.03 using slave pc section p.4-21 configuration info inadequate.	4000093765	252
	98870A	01.03 Typing very fast may cause characters to be lost or garble command line	4000091660	242
	98870A	01.03 function keys do not work with evelys word program	4000091678	242
	98870A	01.03 superkey version 1.11 does not work with soft pc	4000091710	242
	98870A	01.03 cannot connect an HP-IB plotter to a comp port	4000091728	242
	98870A	01.03 "MS Learning DOS" hangs softpc just after start up, SCR160	4000091736	243
	98870A	01.03 caps lock key must be pushed twice to change state.	4000091926	243
	98870A	01.03 soft PC does not assign colors correctly, SCR254	4000091991	244
	98870A	01.03 copying from com1 to a file doesn't work correctly, SCR251	4000092015	244
	98870A	01.03 word perfect graphics conversion locks up softpc, graphcnv.exe, SCR251	4000092023	245
	98870A	01.03 setup panel highlights random characters, SCR214	4000092056	246
	98870A	01.03 full ibm character set is not correctly implemented	4000092072	246
	98870A	01.03 all legal termcap ID's for the 2393 terminal are not recognized by Softp	4000092098	247
	98870A	01.03 garbage appears on screen when using model 700/44 terminal, SCR222	4000092106	248
	98870A	01.03 cursor doesn't track properly when running "Word Perfect", SCR250	4000092130	248
	98870A	01.03 line drawing characters aren't mapped correctly	4000092148	249
	98870A	01.03 Cannot connect HP-IB printer to comp port properly, SCR220	4000092205	249
	98870A	01.03 softpc kills the bell and autorepear in x11	4000093666	250
	98870A	01.03 softpc will not work properly with some types of reparenting windowmgr	4000093674	250
	98870A	01.03 reassigning devices will lock up soft pc	4000093690	251
	98870A	01.03 /usr/bin/dosls incorrectly specifies volume labels as filenames	4000093708	251
	98870A	01.03 pages A-Z and A-4 "using soft pc; should not refer to the DOS coprocessor	4000093781	252
	98870A	01.03 Soft PC does not understand local:0 DISPLAY variable	5000463372	260
	98870A	01.03 Request:reposition window used to create new devices to avoid overlap	5000464107	261
	98870A	01.03 can't enter text into menu box when adding a new hard drive using menu	5000474726	261
	98870A	01.03 Lotus, Word Perfect will not work with drive e on SPC 1.3	5000527143	262
	98870A	00.00 sidekick does not work in CGA mode	4000091934	244
	98870A	00.00 SoftPC Comm ports do not have eight bit parity capabilities	4000091983	244
	98870A	00.00 Color Graphics refresh is slow on Falcon game, SCR143	4000092049	246

- STARBASE RAD & RAY - SSB ISSUE DATE: 07/23/90

*****none*****	98885A	01.00 render_scene gives incorrect error message for unclosed trim curves	4000096396	264
	98885A	01.00 Objects disappear when they are place exactly on the hither plane.	4000096412	264
	98885A	01.00 Radiosity shadows not computed for extremely small environments.	4000096438	264
	98885A	01.00 False shadows are produced at some polygon vertices	4000096446	265
	98885A	01.00 Complex polygons may get holes punched in them.	4000096461	265
	98885A	01.00 "Invalid global environment id" should read "Invalid scene id"	4000096479	265

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- STARBASE RAD & RAY - SSB ISSUE DATE: 07/23/90

Keyword	Product number	uu.ff Description	KPR number	page
*****none*****	98885A	01.00 Facets disappear in some ray traced spline surfaces.	4000097113	266
	98885A	01.00 Facets have "acne" in ray trace of certain spline surfaces	4000097121	266
	98885A	01.00 Gamma correction causes a crash for backgrounds and flat shade items.	4000097139	266
	98885A	01.00 Facets get shadowed when radiosity done on specific spline surface	4000097147	266
	98885A	01.00 When a trimming curve is applied to certain spline surfaces edges drop	4000097154	267
	98885A	01.00 Intensities per/vertex not blended correctly on meshed polygons.	4000098533	267
		- X.25/300 LINK - SSB ISSUE DATE: 07/23/90		
*****none*****	36941A	02.00 Data corruption may happen under very rare Reset conditions	4700823310	268



KPR #: 4000023648 Product: 300/800 COMMON 97089-XXXXX 00.00

Keywords: AWK

One-line description:
Errors in awk documentation.

Problem:
Errors in awk documentation:

- * Concepts and tutorials
On page 11 it shows the string function split but does not show the usage which is
n=split(....)

* Ref. Guide

Page 2 of awk(1), lines 10 and 11 should be ~(for contains) and !~(for does not contain). The '~' does *not* appear.

This defect entry references errors in three manuals:

Text Processing C&T, awk:

There is no example of any usage for split (p.16).

n=split(...) is one use.

HP-UX Reference, awk(1):

As of, at least as early as, Release 6.5/3.1 the Ref. Guide did show the tildes. They may have been missing from earlier editions.

Text Formatters C&T, nroff:

There is no suggestion about using col before sending nroff output to the printer or CRT.

Cause:

The TBL examples work correctly with troff, but sometimes do not work with proff. Nroff output should be run through col as explained on col(1) manual page in HP-UX reference.

Temporary solution:

Need to add note to tutorial explaining the necessity of using col(1) after nroff before sending output to printer or CRT.

for nroff outputs to CRT or printer, consider, as it appears in

HPUX Reference, col(1):

tbl <filename> | nroff -man | col | more -s

for awk(1) in the HPUX Reference, use ~ (tilde) as a matching-operator meaning "contains", and use !~ (exclamation-point tilde) as matching-operator meaning "does not contain" in:

expression matching-operator regular-expression
for using split in awk, one use is to determine the number of fields(n) a string is split into:

n=split(string,<array-name>,<separator>)

Fix information:

Will be fixed in future release

The HPUX Reference entry for awk(1) is updated to reflect

the tilde omission for, at least as early as, Release 6.5/3.1

The awk C&T* entry is enhanced to show an example for

Known Problem Reports as of 07/23/90

KPR #: 4000023648 **CONTINUED**

split for Release 8.0
The nroff C&T* entry is enhanced to show using col for nroff CRT and printer output for Release 8.0

* As of Release 8.0, C&T's are restructured and renamed. The new collection is User's Guides, rather than C&T's. awk is a part of the Text Processing User's Guide; nroff is a part of the Text Formatting User's Guide. Page numbering may have changed.

KPR #: 4000098558 Product: 300/800 COMMON 97089-XXXXX 00.00

One-line description:

Subject: bug in wc documentation

Problem:

Subject: bug in wc documentation

The manual page says that wc prints the file name if multiple files are specified on the command line. wc prints the file name even if only one file name is specified on the command line.

Temporary solution:

None needed.

Fix information:

Fixed several releases ago.

Signed off 07/16/90 in release X05.30

KPR #: 5000296855 Product: 300/800 COMMON 97089-XXXXX 00.00

Keywords: DOCUMENTATION

One-line description:

Periph Inst Gde, give switch setting for 98550A when 98556A is added.

Fix information:

May be fixed in a future release.

KPR #: 4000040410 Product: ADA DS. - 9000/300 98860 03.00

One-line description:
Constant folding should raise NUMERIC_ERROR but raises CONSTRAINT_ERROR

Problem:
Constant folding which results in a value outside of the base type range incorrectly raises a CONSTRAINT_ERROR rather than a NUMERIC_ERROR during execution. As in:

```
-----
```

```
with text io;
procedure HP404100M is
  s : short_short_integer;
  negone: integer := -1;
begin
  begin
    -- The following incorrectly raises constraint error.
    s := short_short_integer(-128) / short_short_integer(-1);
  exception
    when CONSTRAINT_ERROR =>
      TEXT_IO.PUT_LINE("CONSTRAINT_ERROR raised incorrectly");
    when NUMERIC_ERROR =>
      TEXT_IO.PUT_LINE("NUMERIC_ERROR raised correctly");
  end;
end;
```

```
-----
begin
  -- The following correctly raises numeric error.
  s := short_short_integer(-128) / short_short_integer(negone);
exception
  when CONSTRAINT_ERROR =>
    TEXT_IO.PUT_LINE("CONSTRAINT_ERROR raised incorrectly");
  when NUMERIC_ERROR =>
    TEXT_IO.PUT_LINE("NUMERIC_ERROR raised correctly");
end;
```

```
end HP404100M;
```

Fix information:
May be corrected in a future release.

KPR #: 4000047415 Product: ADA DS. - 9000/300 98860 03.00

One-line description:
Unhandled exceptions in a task may fail to produce a traceback.

Problem:
Unhandled exceptions in tasks should produce a traceback as in the environment task. There is no particular reason the environment task should be singled out for this treatment.

```
-----
with text io; use text_io;
procedure HA474150M is
  task crash;
```

```
---
task body crash is
  count : integer := 10;
  frac : float;
```

- ADA DS. - 9000/300 -

KPR #: 4000047415 **CONTINUED**

```
begin
  loop
    -- unhandled exception when count = 0
    frac := float (1/count);
    count := count - 1;
  end loop;
end crash;

begin
  put_line("Tasks created with unhandled exception.");
  put_line("HA474150M FAILED if no traceback for " &
    "unhandled exception in task");
end HA474150M;

-----
Tasks created with an unhandled exception.
HA474150M FAILED if no traceback for unhandled exception in task.
-----
<No traceback.... FAILED>
```

Fix information:
May be corrected in a future release.

KPR #: 4000056556 Product: ADA DS. - 9000/300 98860 03.00

Keywords: ADA

One-line description:
'ADDRESS returns bad value if applied to program unit not yet elaborated

Problem:
Wrong value is returned by the attribute ADDRESS when applied to a program subunit which is not yet elaborated.

```
As in:
with SYSTEM; use SYSTEM;
package PACK is
  procedure P;
  X : ADDRESS := P'ADDRESS; -- P has not been elaborated
end PACK;
```

Temporary solution:
Insure the elaboration of the program subunit. In the given example, initialize X to P'ADDRESS within the body of PACK (which contains the body of P). Or declare P in another library package; and use pragma ELABORATE of that library package before initializing X to P'ADDRESS within the specification of PACK.

Fix information:
May be corrected in a future release.

KPR #: 4000057836 Product: ADA DS. - 9000/300 98860 03.00

Keywords: ADA

One-line description:
No STORAGE_ERROR (or user logged-off) for task stack limit exceeded

- ADA DS. - 9000/300 -

KPR #: 4000057836 **CONTINUED**

Problem:
Objects declared within tasks are allocated in the task's stack. If the object is larger than the available task stack limit, then STORAGE_ERROR (or TASKING_ERROR depending on where in the task the problem occurred) should be raised, but instead, results in a "Memory fault" with a core dump. Additionally, if the main program happens to be performing IO, the user may get logged-off.

Example (no IO in main program):

```

program MAIN is
  task type T;
  type TA is access T;
  X : TA;
  task body TA is
  begin
    0 : array (INTEGER range 1..10000) of INTEGER;
    null;
  end;
begin -- MAIN
  -- The following statement should cause STORAGE_ERROR, but instead
  -- it results in a "Memory fault" with a core dump.
  X := new TA;
end MAIN;
```

Temporary solution:

By default, task stack limit of a task (not the main program) is 8*1024 bytes. With the "-w b,-t,<nn>" option, this limit can be increased to avoid this problem. Additionally, the user can change the program to declare smaller items or use the heap (rather than the stack).

Fix information:
May be corrected in a future release.

KPR #: 4000070938 Product: ADA DS. - 9000/300 98860 03.00

One-line description:
Poor error message when a subprogram does not conform with its spec

Problem:
When the body proposed for a subprogram P does not conform (profile) with its spec, a short message says "the body of P is missing"; whereas signaling the presence of potentially matching specifications would be more user-friendly.

Fix information:
May be corrected in a future release.

Signed off 03/27/90 in release A04.35

KPR #: 4000082925 Product: ADA DS. - 9000/300 98860 03.00

One-line description:
The MACHINE_ROUNDS attribute is wrong for fixed point types

Problem:
The following program shows a bug in the 'MACHINE_ROUNDS' attribute for fixed point types. The program does a division of a fixed point value by an integer. This operation truncates, and does not round. Because of this, fix'MACHINE_ROUNDS should be FALSE rather than TRUE.

```

with TEXT_IO;
procedure FIXROUNDS is
  type fix is delta 1.0 range -10.0 .. 10.0;
  F: fix;
begin
  F := 3.0;
  F := F / 4;
  -- will either truncate to 0.0 or round to 1.0.
  -- Either are OK according to RM 4.5.7, since the
  -- required bounds on the result is the model
  -- interval 0.0 .. 1.0. However, since division is
  -- a predefined arithmetic operation, if truncation
  -- occurs, fix'MACHINE_ROUNDS should be FALSE, RM
  -- 13.7.3.
  if (F = 0.0) then
    if (fix'MACHINE_ROUNDS) then
      -- This is the message printed!!!!!!!!!!!!!!
      TEXT_IO.PUT_LINE (
        "FAILED, did truncation and MACHINE_ROUNDS was true")
    else
      TEXT_IO.PUT_LINE (
        "PASSED, did truncation and MACHINE_ROUNDS was false");
    end if;
  elsif (F = 1.0) then
    if (fix'MACHINE_ROUNDS) then
      TEXT_IO.PUT_LINE (
        "PASSED, did rounding and MACHINE_ROUNDS was true");
    else
      TEXT_IO.PUT_LINE (
        "PASSED, did rounding and MACHINE_ROUNDS was false");
    end if;
  else
    TEXT_IO.PUT_LINE ("FAILED: F is neither 0.0 or 1.0");
  end if;
end FIXROUNDS;
```

Fix information:
May be fixed in a future release.

KPR #: 4700822031 Product: ADA DS. - 9000/300 98860 04.35

One-line description:
Object value corrupted by assignment of array with certain lower bound

Problem:
If an object is allocated after a variable declaration of an

KPR #: 4700822031 **CONTINUED**

array type having as lower bound T'PRED(X) with X less than T'FIRST, the object value is corrupted after the assignment of that array variable.

Test program follows:

```
with TEXT_IO;
procedure sa3092 is
  type T is range 0 .. 25;
  X : T := 0;
  A : array (T'pred (X) .. 10) of INTEGER;
  Y : INTEGER := 0;
begin
  A := (OTHERS => 1);
  TEXT_IO.PUT (INTEGER'IMAGE(Y));
  if Y = 0 then TEXT_IO.PUT_LINE(" PASSED");
  else TEXT_IO.PUT_LINE(" FAILED");
  end if;
end;
```

KPR #: 4700827220 Product: ADA DS. - 9000/300 98860 04.35

One-line description:
Abort never occurs without task reaching sync. point

Problem:

The runtime system checks for abnormalcy before and after it performs operations, e.g., making an entry call, aborting a task, etc. However, it doesn't check if a task becomes abnormal at the end of each time slice. Therefore, if a task only loops around users' code and is aborted, it will never terminate. The following example illustrates:

-- This program never terminates. According to the LRM, it doesn't need to, but it would be better if the task were checked for abnormalcy after each time slice. With that, this would terminate.

```
with TEXT_IO;
procedure TA is
  pragma PRIORITY (1);
  MINE: exception;

  task T is
    pragma PRIORITY (1);
  end T;
  task body T is
    begin
      loop
        null;
      end loop;
    end T;

  begin
    delay 0.1;
```

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KPR #: 4700827220 **CONTINUED**

```
TEXT_IO.PUT_LINE ("About to abort");
abort T;
TEXT_IO.PUT ("Aborted");
end TA;
```

Temporary solution:

We can let the runtime check for abnormalcy by making an entry call or executing a delay statement in the task being aborted. This forces the aborted task to be swapped out and checked for abnormalcy. Therefore, task body T in the example above can be modified as:

```
task body T is
begin
  loop
    delay 0.1;
  end loop;
end T;
```

KPR #: 4700839746 Product: ADA DS. - 9000/300 98860 04.35

One-line description:
PROGRAM_ERROR may occur when lib pkg has record w/ dyn array components

Problem:
PROGRAM_ERROR raised at execution time when a library package contains an object of a record type having dynamic array components which may raise CONSTRAINT_ERROR.
Test program follows:

```
package SA is
  I : integer := 0;

  type REC2 (size : positive := 1) is
    record
      S : string (1 .. size);
      C1, C2 : integer range 1 .. positive (I);
    end record;
  VAR2 : REC2;
end SA;

with SA;
procedure SA3763 is
begin
  null;
end SA3763;
```

KPR #: 4700842864 Product: ADA DS. - 9000/300 98860 04.35

One-line description:
Unhandled exception in main subprogram incorrectly kills library tasks

Problem:

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KPR #: 4700842864 **CONTINUED**

-- This program shows a bug in Ada/300 only.
 -- It does not appear in Ada/800.

-- We have a library package with a task, and two main subprograms.
 -- If I bind with MAIN_NORMAL, the main completes normally, and then
 -- waits for the library task to complete. If I bind with MAIN_EXCEPT,
 -- the main completes by raising an exception. In this case, the
 -- exception manager aborts the program, killing the library
 -- task. This is not correct, it should wait for library tasks.

```

package HAS_TASK is
  task LIB_TASK is
    entry POKE (ARG: in STRING);
  end LIB_TASK;
end HAS_TASK;

with TEXT_IO;
package body HAS_TASK is
  task body LIB_TASK is
    begin
      for I in 1..100 loop
        select
          accept POKE (ARG: in STRING) do
            TEXT_IO.PUT_LINE (ARG);
          end POKE;
        or
          delay 0.5;
            TEXT_IO.PUT_LINE ("In task");
        end select;
      end loop;
    end LIB_TASK;
  end HAS_TASK;

  with HAS_TASK;
  procedure MAIN_NORMAL is
    begin
      for I in 1..5 loop
        delay 2.0;
        HAS_TASK.LIB_TASK.POKE ("In main");
      end loop;
      HAS_TASK.LIB_TASK.POKE ("MAIN DONE!!!");
    end MAIN_NORMAL;

  with HAS_TASK;
  procedure MAIN_EXCEPT is
    begin
      for I in 1..5 loop
        delay 2.0;
        HAS_TASK.LIB_TASK.POKE ("In main");
      end loop;
      HAS_TASK.LIB_TASK.POKE ("MAIN RAISING!!!");
      raise NUMERIC_ERROR;
    end MAIN_EXCEPT;

  Temporary solution:

```

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KPR #: 4700842864 **CONTINUED**

Put an exception handler at the end of your main subprogram, as follows:

```

exception
  when others =>
    TEXT_IO.PUT_LINE ("MAIN terminated with exception");
end;

```

This will cause the main to print a message and complete normally, avoiding the bug.

KPR #: 4700843680 Product: ADA DS. - 9000/300 98860 04.35

One-line description:
 Incorrect aggregate for packed array of a subtype of Boolean

Problem:

The following test case demonstrates a problem with the 68K code generator. When generating code for the (others => TRUE) statement, the 68K code generator gets the BTEXTS instruction wrong.

The problem occurs when a subtype of STANDARD.BOOLEAN is used in a length clause and assigned a size of 1 bit in a size specification. The compiler generates an incorrect MC68020 instruction: BTEXTS, when code is emitted for the (others => TRUE) aggregate.

If the code is optimized with HLOPT the problem disappears.

```

=====
with TEXT_IO;
procedure BUG is
  use TEXT_IO;
begin

```

```

  ----- CASE #1 -----

```

```

  declare
    type BIT is new BOOLEAN;
    for BIT'SIZE use 1;

    type BITARR is array(0..2) of BIT;
    for BITARR'SIZE use 3;

```

```

    A1 : BITARR := (others => TRUE);
    A2 : BITARR := (0 => TRUE, 1 => TRUE, 2 => TRUE);

```

```

  begin
    PUT_LINE("Case #1:");
    if A1 /= A2 then
      PUT_LINE(" Bad representation for aggregate: " &
        ",(others => TRUE)");
    end if;
  end;

```

```

    -- ERROR CASE
    -- A1 and A2 should be equal

```

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KPR #: 4700843680 **CONTINUED**

----- CASE #2 -----

```

declare
  subtype BIT is BOOLEAN; -- Type BIT renames STANDARD.BOOLEAN

```

```

  type BITARR is array(0..2) of BIT;
  pragma PACK(BITARR);

```

```

  A1 : BITARR := (others => TRUE);
  A2 : BITARR := (0 => TRUE, 1 => TRUE, 2 => TRUE);

```

```

begin
  PUT_LINE("Case #2:");
  if A1 /= A2 then -- ERROR CASE
    PUT_LINE("Bad representation for aggregate: " &
      " , (others => TRUE)");
  end if;
end;
end BUG;

```

Temporary solution:

The user can either use STANDARD.BOOLEAN directly or use his own Boolean type which can be declared:

```

type BIT is (FALSE, TRUE); for BIT'SIZE use 1;

```

Also:

There is a patch available, to replace the faulty version of the ada compiler with a working version. The patch is too big to put on the Fort Collins SE machine (hpfscse). If you want a copy, call the Ada support line at 408/447-5900.

Fix information:

This defect may be repaired in a new release.

KPR #: 4700852830 Product: ADA DS. - 9000/300 98860 04.35

One-line description:

The result of fixed point division is rounded down.

Problem:

The compiler incorrectly truncates (rounds down) the result of a fixed point division. This is incorrect because the Fixed Point attribute F'MACHINE_ROUND returns TRUE.

Temporary solution:

There is no workaround at this time.

Fix information:

May be fixed in a future release

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KPR #: 4700862961 Product: ADA DS. - 9000/300 98860 04.34

One-line description:

Ada.Make utility does not work on Ada/300 release 4.35

Problem:

The version of ada.make shipped with HP-UX 7.0 (Ada version 4.35) does not work at all. This is due to a product release problem. Unfortunately, the wrong file got released to manufacturing. Ada.make is the only product component affected by the problem.

Ada.make will issue error messages like the following:

```

*** Error: That's an unknown qualifier DEBUG.

```

```

Make: Error:
| Incorrect parameters, make aborts.
|

```

```

ada.make: Errors detected.

```

Ada.make aborts right away, and does not produce any results.

The revision strings of the bad version are as follows (to find these, type: "cd \$ADA_PATH; what ada.make*");

```

ada.make: HP98860 A.04.35 89/09/30

```

```

ada.make.bin:

```

```

HP98860 A.04.35 Ada/300 DS AdaMake 89/09/29

```

Temporary solution:

There is a patch available, to replace the faulty version of the ada.make tool with a working version. The patch is on the Fort Collins SE machine (hpfscse) in directory ~/ftp/unsupp-patches/300-7.0/Ada. The file README in that directory explains the patch. The distribution mechanism is subject to change, so if you have any problems getting the patch, call the Ada support line at 408/447-5900.

The adamae patch has been incorporated into released product and shipped through manufacturing. This version of the product was shipped on tape with part number 98860-10036.

Fix information:

Fixed in version 4.35 of the product. Fixed is on tape with part number 98860-10036. Customers on update services should have already received the new tape.

Signed off 03/27/90 in release A04.35

KPR #: 4700863688 Product: ADA DS. - 9000/300 98860 04.35

One-line description:

UNIX_ENV not in predefined library as documented.

Problem:

The User's Guide indicates that UNIX_ENV will be supported in the 4.35 release. However, this package has in fact been

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KPR #: 4700863688 **CONTINUED**

eliminated. Some customers who have used previous versions of the HP Ada Development System may have code which makes use of this package.

Temporary solution:

The UNIX_ENV package has been replaced by the SYSTEM_ENVIRONMENT package, which supplies the same functionality. The workaround is use this package instead.

Fix information:

The next version of the User's Guide will be corrected to indicate that UNIX_ENV is not available.

KPR #: 4700863746 Product: ADA DS. - 9000/300 98860 03.25

Keywords: RUNTIME

One-line description:
Shared memory utility "shmat" interferes with Ada heap

Problem:

A program calls the HP-UX shared memory utility "shmat" to get a shared memory segment. After this, the Ada heap has been reduced to less than 64K bytes of available memory. Seems to be some interaction between "shmat" and the heap. This eventually causes STORAGE_ERROR.

Temporary solution:

There is a workaround available. For details, call the Ada support line at 408/447-5900.

KPR #: 4700868893 Product: ADA DS. - 9000/300 98860 04.35

One-line description:

File name expansion works incorrectly if working directory is /

Problem:

Any time an Ada DS component is invoked when the current working directory is the root directory /, some path names displayed by the Ada DS component will start with two slashes // instead of one slash /. This is most noticeable with ada.lslib, but it can occur with any component.

The problem is essentially cosmetic as it will not cause failure of any of the ADS components (HP-UX will ignore the redundant leading / when access is attempted).

Temporary solution:

There is no workaround at this time other than not performing Ada DS operations while the current directory is /. There is no harm in performing Ada DS operations while in /, the product will operate correctly in other respects, displayed file paths simply "look strange" with the leading double /.

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KPR #: 4700868893 **CONTINUED**

Fix information:

This defect has been corrected for Ada/800 revision 4.35, it will be corrected for Ada/300 at some revision after revision 4.35.

This defect has been corrected for both Ada/300 and Ada/800 at revision 5.3.

KPR #: 4700877944 Product: ADA DS. - 9000/300 98860 04.35

Keywords: TOOLS

One-line description:

Suppressing uncalled subprograms incorrectly turns on binder listing

Problem:

When the removal of uncalled subprograms is suppressed, with the "-w b;-k" binder option, it does so, but it also incorrectly turns on the binder map (the "-w b;-l" option). This produces many pages of output. The executable produced is correct, but the extra output is a nuisance.

Temporary solution:

There is a patch available, to replace the faulty version of the Ada compiler driver with a working version. The patch is on the Ft Collins SE machine (hpfscse) in directory ~ftp/unsupp-patches/300-7.0/Ada. The file README in that directory explains the patch. The distribution mechanism is subject to change, so if you have any problems getting the patch, call the Ada support line at 408/447-5900.

KPR #: 4700882399 Product: ADA DS. - 9000/300 98860 04.35

One-line description:

Incorrect slice assignment when target & source are ref. by same pointer

Problem:

Here is the test program I wrote to demonstrate the reported problem:

-- This test procedure illustrates the following error produced by the

-- ADA compiler:

--
-- When the value of a slice is assigned to another slice within the
-- same record and the slices are referenced by the same access
-- element, the assignment is done incorrectly.

WITH text_io;

PROCEDURE A IS

USE text_io;

PACKAGE int_io IS NEW integer_io (integer);

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KPR #: 4700882399 **CONTINUED**

```

USE int_io;

type array_range is (x, y);
type array_type is array (array_range) of integer;

type record_type;
type record_pointer_type is access record_type;
type record_type is record
  savepos, pos : array_type := (0, 0);
end record;

this_record_pointer : record_pointer_type;

BEGIN
  this_record_pointer := new record_type;
  this_record_pointer.pos := (20, 30);

```

```

-- The following line of code produces incorrect (unexpected) result:
-- The final value of the second element of savepos is 20, not 30!
--
this_record_pointer.savepos := this_record_pointer.pos;

```

```

put ( " pos : " );
put ( this_record_pointer.pos (x), 0 );
put ( " " );
put ( this_record_pointer.pos (y), 0 );
new_line;
put ( " savepos : " );
put ( this_record_pointer.savepos (x), 0 );
put ( " " );
put ( this_record_pointer.savepos (y), 0 );
new_line;

```

```

this_record_pointer.pos := (20, 30);

```

```

-- The following line of code produces correct result.

```

```

this_record_pointer.savepos (x..y) := this_record_pointer.pos (x..y);
put ( " pos : " );
put ( this_record_pointer.pos (x), 0 );
put ( " " );
put ( this_record_pointer.pos (y), 0 );
new_line;
put ( " savepos : " );
put ( this_record_pointer.savepos (x), 0 );
put ( " " );
put ( this_record_pointer.savepos (y), 0 );
new_line;

```

```

END A;

```

Temporary solution:

Do the assignment into a temporary variable, and then back

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KPR #: 4700882399 **CONTINUED**

into the appropriate record.

KPR #: 4700883074 Product: ADA DS. - 9000/300 98860 04.35

One-line description:
FLU tools misbehave when arguments are 81 characters or longer.

Problem:

The ada.fmgr, ada.lmgr, and ada.umgr tools misbehave when they are presented with arguments that are 81 characters or longer. In particular, this problem has been noticed in the unit manager and the library manager. Consider the following sample sessions.

```

ada.umgr testlib
Unit_Manager.1 <81char name>

```

```

-- Program terminated by an exception propagated to a non Ada scope.
-- Exception raised: PROGRAM_ERROR
-- Erroneous instruction (address error) at PC: 0x370C6.

```

```

----- Stack trace of the propagation in the main stack -----

```

Compilation unit name	Scope name	Scope kind	Line number
PARSER_LEXICAL	GET_EXTENDED_SYMBOL	SUBPROGRAM	412
-- End of propagation: Program aborted.			

The unit manager sometimes goes into an infinite loop. Sometimes you get the message (unable to reproduce this) error : Command not completed -- unexpected exception.

```

-- UNIX signal #7 raised outside Ada code at PC: 0x8DF60.
-- Program aborted.
sh: 19134 EMT trap - core dumped

```

Temporary solution:
Use shorter names in commands.

KPR #: 4700886150 Product: ADA DS. - 9000/300 98860 04.35

Keywords: TOOLS

One-line description:

Binder aborts when considering too many unused subprograms for deletion

Problem:

When binding large programs, the binder aborts with internal error. If we suppress the removal of uncalled subprograms (with the "-w b,-k" option), the binder works fine.

The error message is:

Ada Binder: Internal Error: Internal data is inconsistent. Either one of your libraries may have been corrupted, or erroneous code has been

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KPR #: 4700886150 **CONTINUED**

generated for one of the units.
 *** Please contact your HP representative ***
 Bind of MAIN failed. 1 error.
 No valid object file generated.
 ada: Errors detected.

Temporary solution:

There is a patch available, to replace the faulty version of the binder with a working version. The patch is on the Fort Collins SE machine (hpfscse) in directory "ftp/unsupp-patches/300-7.0/Ada. The file README in that directory explains the patch. The distribution mechanism is subject to change, so if you have any problems getting the patch, call the Ada support line at 408/447-5900.

KPR #: 5000535146 Product: ADA DS. - 9000/300 98860 04.35

Keywords: TOOLS

One-line description:

ada.mklb needs read&search perms on all dirs in paths of libs in family

Problem:

Ada.mklb will fail, unless it has read (r) and search (x) permissions on all directories involved in the full path names of all libraries in the family specified (or the default public family, if used).

Temporary solution:

Make sure that all directories in the paths to libraries in the family have both read (r) and search (x) permission for the effective user/group of the ada.mklb command.

To find the list of libraries in the family, use the "ada.lslib" command.

KPR #: 4000035634 Product: ADA DS. - COMMON ADA-DSA 03.00

One-line description:
 Compiler rejects RENAMED entities in separate clauses.

Problem:

The following programs illustrate a problem with RENAMES that should work according to the semantics of rename RM 8.5 (3), but does not compile. The problem is that the context manager (CTX) rejects the use of renaming entities in separate clauses.

```
package A is
  package B renames A;
  procedure HP356340M;
end A;
```

```
---
package body A is
  procedure HP356340M is separate;
end A;
```

```
---
separate (B)
procedure HP356340M is
```

```
1: ***CTX F001 The unit to compile is not known in the ADA library.
```

```
begin
  null;
end HP356340M;
```

```
package A is
  procedure B;
  procedure C renames B;
end A;
```

```
---
package body A is
  procedure B is separate;
end A;
```

```
---
separate (A)
procedure B is
  procedure HP356420M is separate;
begin
  null;
```

```
end B;
```

```
---
separate (A.C)
procedure HP356420M is
```

```
1: ***CTX F001 The unit to compile is not known in the ADA library.
```

```
begin
  null;
end HP356420M;
```

KPR #: 4000035634 **CONTINUED**

Fix information:
May be corrected in a future release.

KPR #: 4000055467 Product: ADA DS. - COMMON ADA-DSA 03.25

Keywords: ADA

One-line description:
AdaXref does not create "introduced" procedure in generic instantiation

Problem:

When a procedure is introduced via a generic package instantiation, and referenced in the same unit, the cross referencer tool XREF does not create an "introduced" occurrence in the corresponding entry.

KPR #: 4000055475 Product: ADA DS. - COMMON ADA-DSA 03.25

Keywords: ADA

One-line description:
AdaXref creates irrelevant "renaming procedure" in generic instantiation

Problem:

When the defaults are used in a generic instantiation with defaulted formal subprograms, cross referencer tool XREF creates an irrelevant "renaming procedure" entry although no renaming procedure is explicitly mentioned in the source.

KPR #: 4000056341 Product: ADA DS. - COMMON ADA-DSA 03.25

Keywords: ADA

One-line description:
AdaFormat abnormal early line folding in col 60 of proc body w/no parms

Problem:

The REFORMATTER (pretty printer) tool incorrectly begins line folding in column 60 (although page width is 80) on a procedure body without parameter.

KPR #: 4000056465 Product: ADA DS. - COMMON ADA-DSA 03.25

Keywords: ADA

One-line description:
AdaFormat produces ugly list of identifiers in multiple declaration

Problem:

Output produced by the REFORMATTER (pretty printer) tool for a list of identifiers in a single declaration statement is unsightly (i.e. not

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KPR #: 4000056465 **CONTINUED**

pretty).

KPR #: 4000057919 Product: ADA DS. - COMMON ADA-DSA 03.00

Keywords: ADA

One-line description:
Compiler crash when large unit w/generics compiled with "-k" option

Problem:

Compiler crash "VCM internal table (AIL_SAVE) overflow" when a large compilation unit containing generics is compiled with the save internal representation option ("-k").

Fix information:

May be corrected in a future release.

KPR #: 4000070896 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:

RENAMEING of a component of a transient record causes compiler abort

Problem:

If a component of a "transient" record object is RENAMED, the compiler aborts with a message indicating that compilation stopped in DAT due to a compiler limitation.

A transient record is a record type which

- has a defaulted discriminant, and
- whose size depends on discriminants value, and
- is potentially greater than 4096 bytes.

The typical example is:

```
type TRANSIENT_RECORD(D:POSITIVE:= 80) is record
  C : STRING(1..D);
end record;
```

Fix information:

May be fixed in a future release.

KPR #: 4000071258 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

AdaProbe's STEP fails on exceptions raised via SIGILL, SIGSEGV or SIGFPE

Problem:

AdaProbe's EXEC.STEP command incorrectly interprets exceptions raised via SIGILL, SIGSEGV, or SIGFPE as a fatal termination condition. The only recourse is to restart the debugging session with the EXEC.RESTART command.

Temporary solution:

The workaround for this defect is to avoid using EXEC.STEP on statements known to raise one of the above exceptions. Instead set breakpoints with BREAK.NEW and step through the statement with the

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KPR #: 4000071258 **CONTINUED**

EXEC.CONTINUE command.

KPR #: 4000071357 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
AdaProbe VIEW.NEW incorrectly omits construct statements (eg exceptions)

Problem:

If I have a program fragment like:

```
with TEXT_IO;
procedure EXCP is
IT: exception;
begin
  raise IT;
exception
  when IT =>
    TEXT_IO.PUT_LINE (...);
end EXCP;
```

And then I use VIEW.NEW (CURRENT, SAME, DECREMENT, GLOBAL),
the result is:

```
with TEXT_IO;
procedure EXCP is
IT: exception;
begin
  raise IT;
  when IT =>
    end EXCP;
```

Notice that the line that contains "exception" has improperly gone away.

KPR #: 4000071423 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
AdaProbe does not detect abnormal termination in interfaced code.

Problem:

In the case where program behavior is incorrect for example when an exception was raised in interfaced code, the message window indicates that "program normally completed". This is definitely not accurate and misleading. Strongly suggest that the wording be changed (possibly to "program terminated"). If AdaProbe can detect abnormal behavior then append "abnormally" to the message, otherwise be silent, and let the user determine if the termination was abnormal or not, it is bad to tell the customer that normal completion occurred when it clearly did not.

The EXEC.WHERE command exhibits similar behaviour.

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KPR #: 4000071431 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
System can lock-up when keys are pressed too rapidly in AdaProbe (X11).

Problem:

If keys are pressed too rapidly while an action is being undertaken by AdaProbe as a result of previous keypresses, the system can become locked up. The display screen may indicate some UNIX signal received and the terminal is then locked up. On a workstation with only a single display this will require rebooting the system in order to regain control since the keyboard is remapped, and reset from keyboard is not possible.

Duplicate Service Requests: 4000089664 4000071647

KPR #: 4000072603 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
AdaProbe INTERNAL ERROR on OBJECT command of generic spec/body object

Problem:

AdaProbe may generate an INTERNAL ERROR when attempting an OBJECT command (ASSIGN or EXAMINE) on an object within a generic specification or body.

Fix information:

May be fixed in a future release.

KPR #: 4000082677 Product: ADA DS. - COMMON ADA-DSA 03.00

One-line description:

DEFAULT command does not attempt to clarify ambiguous abbreviations

Problem:

The Ada User's Guide states that the user will be notified of ambiguity when entering abbreviated unit or family manager commands. But the DEFAULT command does not thoroughly attempt to prevent ambiguous commands, rather executes them. For example, the command unit manager command "d YES" sets INVOKE.DISPLAY to YES and QUIT.DEFAULTS to "YES".

Fix information:

May be corrected in a future release.

KPR #: 4000082727 Product: ADA DS. - COMMON ADA-DSA 03.00

One-line description:

Compiler goes into an infinite loop on ambiguous overloading

Problem:

In the following example, the array bounds could be either INTEGER or SHORT INTEGER. Since the compiler can not resolve this overload, the compiler should give an "ambiguous overloading" error message, but instead it goes into an infinite loop.

package DEFINE is

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KPR #: 4000082727 **CONTINUED**

```

function FFF (X: in integer) return integer;
function FFF (X: in short_integer) return short_integer;
end DEFINE;

```

```

with DEFINE;
procedure BKEQ02_0M is
type xx is array ( DEFINE.FFF(7) .. DEFINE.FFF(6) ) of integer;
begin -- BKEQ02_0M
null;
end BKEQ02_0M;

```

Fix information:
May be fixed in a future release.

KPR #: 4000082792 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
Incorrect error indicator position for infix or inlined function calls

Problem:
The compiler incorrectly locates error position indicators for errors involving "infix" function calls or inlined function calls.

The following results assume the following declarations:

```

subtype SMALL is integer range 1..10;

function F (A, B: small) return integer;
function "&" (A, B: small) return integer;

function "and" (A, B: small) return integer;

pragma INLINE ("and");

```

The resulting error messages (note, these messages have been truncated):

```

61  I := F (I, 20);      -- Position indicators are OK
1
2  *COD 9004 CONSTRAINT_ERROR will always be raised here at executio
2  *EXP 6009 CONSTRAINT_ERROR will be raised if executed.

62  I := F (20, I);      -- Position indicators are OK
1
2  *COD 9004 CONSTRAINT_ERROR will always be raised here at executio
2  *EXP 6009 CONSTRAINT_ERROR will be raised if executed.

64  I := I & 20;          -- EXP positions wrong
1
2  *COD 9004 CONSTRAINT_ERROR will always be raised here at executio
2  *EXP 6009 CONSTRAINT_ERROR will be raised if executed.

65  I := 20 & I;          -- EXP positions wrong
1
2  *COD 9004 CONSTRAINT_ERROR will always be raised here at executio
2  *EXP 6009 CONSTRAINT_ERROR will be raised if executed.

```

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KPR #: 4000082792 **CONTINUED**

```

1  *COD 9004 CONSTRAINT_ERROR will always be raised here at executio
2  *EXP 6009 CONSTRAINT_ERROR will be raised if executed.

```

Duplicate Service Requests: 4000092684

KPR #: 4000082909 Product: ADA DS. - COMMON ADA-DSA 03.00

One-line description:
Compiler gets INTERNAL ERROR on fixed point with negative delta

Problem:

The following test shows a problem with the declaration of fixed point types. RM 3.5.9 (3) says that "The delta ... must be positive (nonzero)". Therefore, these two declarations are clearly wrong. However, the compiler does not catch this error, and processes the declarations anyway, until the SNT table overflows. The error message is:

VCM Internal table (SNT) overflows: Compiler limitation

Example:

```

procedure FIXD02_0M is
type FIX is delta 0.0 range -1.0 .. 1.0;
type FIX2 is delta -1.0 range -1.0 .. 1.0;
begin -- FIXD02_0M
null;
end FIXD02_0M;

```

Fix information:
May be fixed in a future release.

KPR #: 4000089011 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
AdaProbe does not allow EXEC.STEP command after a user interrupt

Problem:

AdaProbe does not allow the EXEC.STEP command after a user interrupt. This is unacceptable because interrupting is usually motivated by the need to progress slowly by stepping.

Temporary solution:

Single step control may be regained following a user interrupt by setting a breakpoint at any valid Ada codepoint and then continuing execution until the breakpoint is reached. After reaching the breakpoint, single step commands will work normally.

KPR #: 4000089037 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
AdaProbe's EXEC.RESTART command should signal when loading is complete

Problem:

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KPR #: 4000089037 **CONTINUED**

After executing AdaProbe's EXEC.RESTART command, the message "Loading program..." is first displayed, but no other message appears when loading is complete. Users may keep on waiting. A message should signal when loading is complete.

KPR #: 4000089151 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
AdaProbe reverse video disappears when breakpoint set on current line

Problem:
In dumb terminal mode on HP terminals, AdaProbe reverse video effects disappear when a breakpoint is set on the current line or stepping is performed.

Fix information:
May be fixed in a future release.

KPR #: 4000089268 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
Inlining side-effect functions may affect normal program execution

Problem:
Using compiler option "-0" or "+0 i" to inline subprogram calls may affect program execution when side-effect functions are involved.

Fix information:
May be fixed in a future release.

KPR #: 4000089466 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
No ambiguity detected in some cases involving overloaded operators

Problem:
No ambiguity is detected in some cases involving overloaded operators in expressions with more than one operator.

As in:

```
type T is range 1 .. 10;
Z : BOOLEAN;
function "+"(X, Y : T) return BOOLEAN;
function "+"(X : BOOLEAN; Y : T) return BOOLEAN;
```

```
..
Z := 1 + 1 + 1; -- Ambiguous expression
```

Fix information:
May be fixed in a future release.

KPR #: 4000089789 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
Suggestion: AdaProbe EXEC.WHERE cmd should display library unit name

Problem:
The AdaProbe EXEC.WHERE command does not display the library unit name of subprogram calls (on the call stack), but only the subprogram names, even though the documentation says it should do so.

Fix information:
To be fixed in a future release.

KPR #: 4000089797 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
AdaXref crashes when library mode file omits "use <library>" as 1st line

Problem:
AdaXref crashes in library mode and issues wrong error message when the file containing library mode directives does not include the "use <library>" line as the first line.

KPR #: 4000089870 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
CALENDAR functions TIME_OF and SPLIT return wrong results for leap year

Problem:
The CALENDAR functions TIME_OF and SPLIT return wrong results for the 31st day of months which have 31 days during a leap year. The returned date is shifted one day.

Fix information:
May be fixed in a future release.

KPR #: 4000089953 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
Wrong generic subprogram parameter association for "=" and "/="

Problem:
When the "/=" operator is substituted for a generic formal "=" parameter in an instantiation, the meaning of the "/=" operator within the instantiated unit is incorrectly not the equality.

As in:

```
generic
type T is limited private;
with function "="(P1, P2 : T) return BOOLEAN;
function NE(X, Y : T) return BOOLEAN;
function NE(X, Y : T) return BOOLEAN is
begin
return X /= Y;
end NE;
```

KPR #: 4000089953 **CONTINUED**

function F is new NE(INTEGER, "/="); -- Should have effect of EQUALITY

Fix information:

May be fixed in a future release.

KPR #: 4000089979 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
"-C" compiler option shouldn't affect code of all generic instantiations

Problem:

The "-C" compiler option for suppressing runtime checks should be effective for the code of an inner generic instantiation only if the generic unit itself was compiled with this option. Otherwise, instantiations of generic IO packages inside units compiled with the "-C" option may behave erroneously.

Fix information:

May be fixed in a future release.

KPR #: 4000093005 Product: ADA DS. - COMMON ADA-DSA 04.10

One-line description:
Nested generic instantiation causes compiler to abort

Problem:

-- This procedure shows a bug. The compiler aborts with the following

-- message:

```
--
-- ***MAN H012 Compilation stopped in EXP at line 30 (at line 41 of
--   inlined or instantiated unit) due to a compiler limitation.
-- procedure NESTGEN is
```

```
  generic
  package FIRST is
    F: INTEGER;
  generic
  procedure SECOND;
  end FIRST;
```

```
  package body FIRST is
    G: INTEGER;
  procedure SECOND is
  begin
    F := 1;
    G := 2;
  end SECOND;
```

```
  begin
    F := 3;
    G := 5;
  end FIRST;
```

package INST_FIRST is new FIRST;

procedure INST_SECOND is new FIRST.SECOND;

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KPR #: 4000093005 **CONTINUED**

begin -- NESTGEN

INST_SECOND;

end NESTGEN;

KPR #: 4000093161 Product: ADA DS. - COMMON ADA-DSA 03.20

One-line description:
Abnormal HLO effect for comparison of fixed types in an IF statement

Problem:

Abnormal code elimination occurs during the high level optimizer (HLO) phase of compilation when the "-0" or "+0 e" option is used and an IF statement in the source includes a comparison of fixed type objects. A warning is issued that code will be removed and it is actually removed.

Fix information:

May be fixed in a future release.

KPR #: 4000093203 Product: ADA DS. - COMMON ADA-DSA 04.10

One-line description:
Wrong expression eval order when assigning overlapping array slices

Problem:

Wrong expression evaluation order occurs when assigning overlapping array slices, one of them being a slice of a subprogram parameter.

KPR #: 4000093310 Product: ADA DS. - COMMON ADA-DSA 04.10

One-line description:

Wrong HLO effect for variable tested after LOOP which may alter variable

Problem:

Wrong high level optimizer (HLO) effect occurs during compilation (warning issued, no code generated) when the "-0" or "+0 e" option is used and a variable is tested after a loop which may alter its value. HLO incorrectly removes code when the value is not altered.

Temporary solution:

Do not use the "-0" or "+0 e" options.

KPR #: 4000093328 Product: ADA DS. - COMMON ADA-DSA 04.10

One-line description:

Wrong HLO effect when S'LAST is compared to 0, where S is a STRING param

Problem:

Wrong effect of the high level optimizer (HLO) during compilation when S'LAST is compared to 0, where S is a STRING parameter. The case of a null string seems to be discarded and the corresponding code is removed.

Temporary solution:

Do not use the compilation options "-0", "+0 e", or "+0 p".

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KPR #: 4000093419 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
Certain AdaProbe commands following an XTRA.INVOKE are not executed

Problem:
When an AdaProbe QUIT, XTRA.INVOKE, or EXEC.CONTINUE command follows an XTRA.INVOKE command, they are not executed. Instead, AdaProbe returns in interactive mode.

Temporary solution:
Use the XTRA.LEARN.READ and XTRA.LEARN.EXECUTE commands.

KPR #: 4000093435 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
AdaProbe XTRA.EDIT.FIND cmd has non-UNIX concept for regular expressions

Problem:
In the AdaProbe XTRA.EDIT.FIND command with parameter MODE => REGULAR, the concept of a regular expression is not the same as the usual UNIX concept; the star convention does not allow zero repetitions (there must be at least one character).

KPR #: 4000093468 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
DISPLAY option of the AdaProbe XTRA.LEARN.EXECUTE cmd works improperly

Problem:
When using the AdaProbe XTRA.LEARN.EXECUTE command with the default option DISPLAY=NO, the macro is incorrectly not considered as a black box. The EXECUTE result is displayed regardless of the value of DISPLAY.

KPR #: 4000094243 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
FIX'BASE has incorrect values for attributes 'FIRST and 'LAST

Problem:

In my examples I will use a delta value of 1.0 to simplify things. This allows the integer values used internally to represent a fixed point number to match the actual fixed point values used in the Ada source.

The first example that I will consider is the case of an 8 bit fixed point type.

```
type short_fixed is delta 1.0 range -120.0 .. 120.0;
```

The compiler will correctly represent the values of short_fixed'first and short_fixed'last as -120.0 and 120.0. However if the source code

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KPR #: 4000094243 **CONTINUED**

contains a reference of the form short_fixed'base'first or short_fixed'base'last the the compiler informs you that NUMERIC_ERROR will be raised here at run time.

The compiler resisted all of the methods that I came up with for printing or assigning the value of "short_fixed'base'first". In each attempt to assign or print the value, I was told that NUMERIC_ERROR will be raised here at run time. I finally discovered that I could use a boolean expression to query the compiler about the specific value of "short_fixed'base'first". I determined that the following values were used internally by the compiler:

```
sfbf: constant boolean := short_fixed'base'first = -129.0; -- TRUE
sfbf: constant boolean := short_fixed'base'last = 128.0; -- TRUE
```

I believe that the correct values for fix'base'first and fix'base'last should be -128.0 and 127.0. In fact, as it is currently implemented the fix'base attribute returns a completely useless value, as the compiler will always try to coerce this value to the users fixed point type, and this always causes NUMERIC_ERROR to be raised. The following example illustrates this:

```
type short_fixed is delta 1.0 range -120.0 .. 120.0;
type medium_fixed is delta 1.0 range -32000.0 .. 32000.0;
```

```
type my_float is digits 15;
```

```
m_fixed: medium_fixed;
l_float: my_float;
```

```
begin
```

```
  m_fixed := medium_fixed(short_fixed'base'first);
```

```
1 *EXP 6005 This value is outside the range of the target type.
  NUMERIC_ERROR will be raised here at run time.
```

```
  l_float := my_float(short_fixed'base'first);
```

```
1 *EXP 6005 This value is outside the range of the target type.
  NUMERIC_ERROR will be raised here at run time.
```



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KPR #: 4000096149 Product: ADA DS. - COMMON ADA-DSA

03.25

One-line description:
unchecked conversion of task access object raised PROGRAM_ERROR

Problem:

A library level generic package has a task (or task access) parameter and elaborates the task in its body. The task access is unchecked converted to another task access type (with the same task profile). The generic is instantiated in a procedure. Calls to entries via the converted access value work for some time, but eventually fail with PROGRAM_ERROR.

Fix information:

May be fixed in a future release.

KPR #: 4000096164 Product: ADA DS. - COMMON ADA-DSA

03.25

One-line description:
Unchecked conversion as a function result cannot always be returned

Problem:

A function returning a constrained subtype of an unconstrained array type cannot directly return the result of an UNCHECKED_CONVERSION to that constrained subtype, it must assign the conversion to a local and then return the local.

Fix information:

May be fixed in a future release.

KPR #: 4000096172 Product: ADA DS. - COMMON ADA-DSA

03.25

One-line description:
Changing terminal characteristics using termio() with tasking fails

Problem:

In library package elaboration code, suspend tasking, get and save the current (original) terminal characteristics, change the terminal characteristics, change the terminal characteristics, and then resume tasking. Later, while tasking is running, attempts to restore the original characteristics seem to "not take".

Fix information:

May be fixed in a future release.

KPR #: 4000096230 Product: ADA DS. - COMMON ADA-DSA

04.34

One-line description:
Dynamic in-out slice of bit packed boolean array uses wrong elements

Problem:

-- This shows a bug, in the dynamic slice marked BUG
-- On the outbound parameter assignment, the slice
-- adds I in twice, to make the range 6..8
-- I believe what is happening here is that the code
-- calculates the address of the first bit in the slice.

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Known Problem Reports as of 07/23/90

KPR #: 4000096230 **CONTINUED**

-- It uses this on the inbound assignment. Then, before
-- the outbound assignment, it adds the first index
-- to this pointer, which is incorrect.

With TEXT_IO:

procedure BIT_REP is

type BOOL_ARR is array (INTEGER range <>) of BOOLEAN;
pragma PACK (BOOL_ARR);

A : BOOL_ARR (0..99) := BOOL_ARR' (0..99 => FALSE);
I, J : INTEGER;

procedure INNER (B : in out BOOL_ARR) is

begin

B := not B;

end INNER;

begin

I := 3;

J := 5;

INNER (A(I..J)); -- BUG here. Input slice is 3..5, but on
-- outbound parm assignment, slice used is 6..8.

for X in 0..10 loop

TEXT_IO.PUT_LINE (INTEGER'IMAGE (X) & ' ' &
BOOLEAN'IMAGE (A (X)));

end loop;

end BIT_REP;

Temporary solution:

Put the slice into a temporary object, pass the temporary, and
then copy the temporary back into the slice.

Duplicate Service Requests: 4000088369

KPR #: 4000096321 Product: ADA DS. - COMMON ADA-DSA

04.34

One-line description:

Front end incorrectly folds constant mod expression.

Problem:

The front end appears to be incorrectly folding constant
mod expressions. The result looks like rem was used instead
of mod. Test program follows.

With TEXT_IO:

procedure JUNK1 is

-- Test to ensure consistency between front end's constant
-- folding of mod and evaluated mod.

NEG11 : integer;

POS5 : integer;

COMPUTED_RESULT : integer;

CONSTANT_RESULT : integer;

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KPR #: 4000096321 **CONTINUED**

```

begin
  NEG11 := -11;
  POSS := 5;
  CONSTANT_RESULT := -11 mod 5;
  COMPUTED_RESULT := NEG11 mod POSS;
  if CONSTANT_RESULT /= COMPUTED_RESULT then
    TEXT_IO.PUT_LINE("Failed");
    TEXT_IO.PUT_LINE("Computed result of (-11 mod 5) was => " &
      integer'IMAGE( COMPUTED_RESULT ) );
    TEXT_IO.PUT_LINE("Front end folded constant (-11 mod 5) to => " &
      integer'IMAGE( CONSTANT_RESULT ) );
    TEXT_IO.PUT_LINE("According to 4.5.5 of LRM, result should be => 4");
  else
    TEXT_IO.PUT_LINE("Passed");
  end if;
end JUNK1;

```

KPR #: 4000096339 Product: ADA DS. - COMMON ADA-DSA 04.31

One-line description:
Setting TASK'SORAGE_SIZE too small not detected

Problem:
If you use a representation clause to set TASK'SORAGE_SIZE to a value which is "too small" the error is not explicitly detected and the program behavior becomes unpredictable.

Temporary solution:
The minimum size that can effectively be used in a TASK'SORAGE_SIZE representation clause is 4096. Do not attempt to set the TASK'SORAGE_SIZE value to a value smaller than this otherwise unpredictable behavior will occur.

Fix information:
This problem will be corrected in the next release of the Ada/300 product.

KPR #: 4000096347 Product: ADA DS. - COMMON ADA-DSA 04.30

One-line description:
Two ada.mlibs of the same library at the same time can both fail

Problem:
If two more or less simultaneous attempts are made to CREATE a library with the same name in a given family, both can fail. One can manage to create the library directory but find the family locked when trying to update the family. The other can fail to create the library directory because it already exists. An "incomplete" library will be the result; attempts to ERASE it will fail because it is not a valid library.

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KPR #: 4700820555 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
AdaProbe decodes the PARAMETER string of EXEC.RESTART inconsistently

Problem:
AdaProbe "decodes" the argument string of the EXEC.RESTART command. Due to the AdaWorld interface, this processing may make sense during the initial call to LOAD_PROGRAM (protocol.adb), but when EXEC.RESTART is requested, the processing of the argument string should be suppressed (although code may be needed to transform the string to be compatible with the underlying C routine execv).

KPR #: 4700822056 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
Assembly output shows misleading record alignment values

Problem:
The output produced by the Ada -S option, is perhaps misleading when the actual representation of a record type is shown.

The record alignment value is displayed in bits whereas the user specifies it in storage units. While the value is "right" in that it represents the correct alignment, it is possible that a user will be confused. It would be better if the alignment value was displayed in the same units the user would use to specify it.

KPR #: 4700822106 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
Using the ESC key in AdaProbe key binding causes an INTERNAL ERROR

Problem:
In dumb terminal mode, AdaProbe reports an INTERNAL ERROR when using the ESC key within a key binding.

In addition, there may be problems with timing escape sequences to differentiate between an <ESC>P or F2.

KPR #: 4700822114 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
Software line control chars used in AdaProbe key bindings cause problems

Problem:
Remove use of software line control characters from the predefined key bindings, (that is, ENQ/ACK ^F and ^E, and XON/XOFF ^Q and ^S). Depending on the terminal's configuration (see the v3.25 Ada Tools Manual pg 7-8), the terminal may intercept these keys.

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KPR #: 4700822122 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
Linked units removed or in locked libraries confuse AdaProbe

Problem:

For linked units either within a locked library or removed from the library result in the following defects:

- An INTERNAL ERROR on a progression selection of an object in the linked unit.
- A STEP into the linked unit reports that the unit is not compiled with debug.
- The UNIT.LIST command (silently) fails to list the linked unit.

KPR #: 4700822130 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:

The menu cursor does not trace AdaProbe's Up_Key in dumb terminal mode

Problem:

In dumb terminal mode on 300h terminals, the menu cursor does not trace the Up key correctly. The menu underline and the menu cursor appear on different but adjacent menu items making it difficult to determine which item will be selected when entering Return_Key.

This problem also occurs when using the Down_Key to wrap from the bottom menu item back around to the top menu item.

KPR #: 4700822148 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:

AdaProbe's OBJECT.EXAMINE.QUALIFICATION does not detect invalid input

Problem:

The QUALIFICATION parameter to OBJECT.EXAMINE accepts predefined attributes like 'SIZE without a warning or error, but the object value rather than the attribute value is displayed.

AdaProbe gives no negative feedback that his QUALIFICATION request was ignored. This can seriously mislead the user if the OBJECT value reported looks like a reasonable value for the requested attribute.

The general problem is that NO error checking is being done when the QUALIFICATION parameter is not "required". OBJECT.ASSIGN suffers from this same lack of error checking.

KPR #: 4700822155 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:

AdaProbe's XTRA.VIEW.LIST incorrectly displays all possible line types

Problem:

XTRA.VIEW.LIST displays the list of all possible line types in the Ada language rather than ONLY those line types available in the Ada source code of the specified window. Also, the list is displayed in no apparent order; specifically the order is different than

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KPR #: 4700822155 **CONTINUED**

Table 2-1 in the v3.25 Ada Tools manual.

KPR #: 4700822163 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:

AdaProbe Windows incorrectly repositioned when main X window is resized

Problem:

When running in X, the AdaProbe pop-up CONFIRM and ASSISTED commands windows may be incorrectly repositioned when the main AdaProbe window is resized with the mouse.

AdaProbe may partially reposition the CONFIRM window outside of the visible main window. This should be prevented since AdaProbe will refuse to process any user commands until the CONFIRM window is cancelled.

This defect is easily duplicated on the pop-up windows generated by the QUIT and OBJECT.ASSIGN commands.

KPR #: 4700822171 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

AdaProbe's XTRA.LEARN.TEACH uses undocumented cursor movement commands

Problem:

The cursor movement commands generated by XTRA.LEARN.TEACH need to be added to the documentation.

KPR #: 4700822189 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

AdaProbe doesn't detect if the program has been removed from the library

Problem:

AdaProbe does not always recognize if the program has been removed from the Ada program library. Specific examples follow.

Compile and link a simple program with the -D option and then erase the main unit from the library with the unit manager erase command.

1) EXEC.STEP (MODE => INTO)

AdaProbe incorrectly reports that the unit was not compiled with debug. The pop-up error message reads,
"Cannot STEP INTO, unit not compiled with debug, STEPPING OVER"
The program terminates as if an EXEC.CONTINUE had been entered.

2) EXEC.STEP (MODE => OVER)

AdaProbe incorrectly reports that the unit was not compiled with debug. The pop-up error message reads,
"Cannot STEP INTO, unit not compiled with debug, STEPPING OVER"
The program terminates as if an EXEC.CONTINUE had been entered. Note also that AdaProbe thought we were executing step into.

3) UNIT.LIST

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KPR #: 4700822189 **CONTINUED**

4) Executing EXEC.RESTART and continuing with the above will eventually result in an INTERNAL TOOL ERROR.

KPR #: 4700822197 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

XTRA.INVOKE within .ada.proberc results in deadlock or INTERNAL ERROR

Problem:

Use of an XTRA.INVOKE command within the AdaProbe start-up file (.ada.proberc) results in a deadlock or INTERNAL ERROR

Nested XTRA.INVOKE commands (XTRA.INVOKE within an invoke file) hang also.

KPR #: 4700822205 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

AdaProbe's online help should contain the same info as the manual.

Problem:

There are some inconsistencies where the on-line help facility does not provide the "same" help information as the manual. The on-line help text should match the documentation.

The general problem is that the documentation and the help files are not well integrated. They should appear to the user as if they were written and reviewed by the same person(s).

Specific problem areas should be noted here and will be fixed during the documentation review cycles.

Areas where on-line help and documentation differ.

XTRA.VIEW.NEW.RULE
XTRA.VIEW.NEW.RULE.RULE_DEF

KPR #: 4700822213 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:

AdaProbe PROGRESS may move the cursor to a non-visible source area

Problem:

Selection of a non-visible location (because of existing viewing rules) from the PROGRESS window moves the cursor to the "area" where the object resides. Why not refuse to move the cursor by reporting an error or make the destination line visible?

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KPR #: 4700822247 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

AdaProbe's EXEC.STEP from a RETURN may jump to another RETURN point.

Problem:

In the presence of multiple RETURN points (either RETURN statements or body completion points), EXEC.STEP from a return point may jump to another return point. For example, EXEC.STEP from the LAST STATEMENT in the following pseudo code will result in a jump to the RETURN statement denoted by the "RETURN #1" comment:

```

procedure X is
begin
  if (...) then
    if (...) then
      ...
      return;
    end if;
  elseif (...) then
    ...
    return;
  end if;
  ...
  return;
end X;

```

KPR #: 4700822254 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

AdaProbe INTERNAL ERROR when INVOKE file command's strin parm > 85 chars

Problem: AdaProbe generates an INTERNAL ERROR when a string parameter of a command within an INVOKE file is greater than 85 characters.

Fix information:

May be fixed in a future release.

KPR #: 4700822270 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

AdaProbe cannot OBJECT.EXAMINE/ASSIGN a separate package body object.

Problem:

AdaProbe cannot OBJECT.EXAMINE/ASSIGN a separate package body object.

Fix information:

May be fixed in a future release.

KPR #: 4700822288 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

AdaProbe detects "Exec Error" at START_RESET.1 on EXEC.RESTART.

Problem:

Debug an Ada source that sets the exit status to a non-zero value. When in AdaProbe, set breakpoints on one or more lines, and use EXEC.RESTART. AdaProbe returns with the following error message:

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Exec error raised at START_RESET.1
Status UNKNOWN

AdaProbe states the reason for this error is:
GIVE_ACCESS_TO_SAVE_REGISTERS

To work correctly, the user must first remove all breakpoints, then
EXEC.RESTART.

KPR #: 4700822304 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
CANCEL of online HELP is inconsistent with the other AdaProbe commands

Problem:
The CANCEL_KEY "^X" and right mouse button do not CANCEL AdaProbe's
online HELP facility. HELP must be cancelled with the cancel option
on the HELP menu. This is inconsistent with every other AdaProbe
command.

Attempting to cancel HELP.APROPOS with the CANCEL_KEY leaves the
HELP.APROPOS.ITEM pop-up window visible. The user must explicitly
select this window and cancel it. This is redundant, the pop-up
window should automatically be deleted when help is cancelled.

KPR #: 4700822312 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
ADACOMP generates incorrect AdaProbe line codes for IF-ELSIF statements.

Problem:
The Ada compiler generates incorrect AdaProbe line codes for IF ...
ELSIF statements. Branches around ELSIF conditions are incorrectly
associated with the ELSIF condition when they should be associated
with the last statement in the previous sequence of statements.

This defect also shows up in CASE-WHEN statements with 3 or fewer
WHEN clauses. This is because these get optimized into the
equivalent IF-ELSIF sequence.

This causes the follow AdaProbe defects:

1. EXEC.STEP Defect.
AdaProbe appears to EXEC.STEP on unexecuted source statements
and may mislead the user.
2. BREAK.NEW Defect.
Breakpoints on ELSIF (WHEN) statements will not be hit before
the ELSIF (WHEN) condition is evaluated.

Duplicate Service Requests: 4700828327

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KPR #: 4700822320 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
BREAK.RAISE (CURRENT) reacts differently after used with (INTERACTIVE)

Problem:
AdaProbe's BREAK.RAISE command does not pop up the interactive menu
when first invoked. However, after the command is used interactively,
the menu always appears. Furthermore, when the command is used
interactively, AdaProbe echoes the current setting of the most
recently selected exception, but does NOT echo the current setting of
any exception set interactively, to the message window

To reproduce this, do the following:

Position cursor on an exception

BREAK.RAISE with mode CURRENT => break set correctly. No menu
BREAK.RAISE with mode INTERACTIVE => interactive menu pops up
BREAK.RAISE with mode CURRENT => interactive menu now pops up.
Message is echoed reflecting
the current setting of the
selected exception.

Now, any settings done with interactive mode ARE accepted, but no
message is echoed to the message window.

KPR #: 4700822346 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
AdaProbe's XTRA.WINDOWS.WRITE incorrectly deletes blank source lines

Problem:
AdaProbe's XTRA.WINDOWS.WRITE command deletes blank source lines.
Therefore, source line numbers no longer match the unit window nor
the original source text. No XTRA.VIEW.NEW commands were executed
before writing the unit window.

KPR #: 4700822353 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
Several AdaProbe commands overwrite existing files without warning

Problem:
The following AdaProbe commands will overwrite existing files without
prompting or warning the user:
BREAK.SAVE, XTRA.LEARN.WRITE, XTRA.WINDOWS.WRITE.
This is a defect not an enhancement request.

Adding the following OVERWRITE parameter with CONFIRM as the default
would correct this defect and still allow the user to overwrite files
without prompting when he really wants to.
OVERWRITE => YES | NO | APPEND | CONFIRM

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KPR #: 4700822379 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
AdaProbe's XTRA.LEARN.TEACH doesn't record mouse input

Problem:

Any commands that are input via selection with the mouse, are not recorded when using XTRA.LEARN.TEACH. There are some commands, such as switching windows, that are logically done with the mouse (X11) when using XTRA.LEARN.TEACH, the user has to be especially careful not to use the mouse - which is a real nuisance.

KPR #: 4700822387 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
AdaProbe's EXEC.RESTART with incomplete parameters causes INTERNAL ERROR

Problem:

AdaProbe's EXEC.RESTART command with incomplete parameters used within an XTRA.INVOKE or startup file may cause an INTERNAL ERROR. Reproduce by executing either of the following within an INVOKE or startup file:

```
EXEC.RESTART ;
EXEC.RESTART {MESSAGE => DIALOG};
```

KPR #: 4700822395 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
AdaProbe unable to restart after error termination in user program

Problem:

When a program terminates in an error, AdaProbe gives the message:

After Continue, your program died of fatal error: Not owner

Then, if you try to EXEC.RESTART it, you get

```
Exec error raised at START_RESET.1
Reason :GIVE_ACCESS_TO_SAVED_REGISTERS,
System error occurred (No such process)
Status: UNKNOWN
```

The only work-around is to exit AdaProbe and restart it.

KPR #: 4700822403 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
AdaProbe may display an extra box mark when the screen is resized in X11

Problem:

AdaProbe may display an extra box mark when the screen is resized in X11

This defect can be easily demonstrated in the initial screen before opening any Ada units by clicking on the Message Window to generate the mark and then enlarging the AdaProbe screen. The box mark will be written on the new Message window and a ghost image will appear in its

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KPR #: 4700822403 **CONTINUED**

previous physical location on the screen.

KPR #: 4700822494 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

If AdaProbe fails to open an X window, it doesn't cleanup after itself.

Problem:

If AdaProbe is unable to open a display on the X server, it aborts without resetting the terminal to its previous state.

KPR #: 4700822510 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

Use of pseudo token EOFMARK in error message could be better

Problem:

When error recovery inserts tokens before the "end of the source file" the syntax error messages mention that they were inserted before "EOFMARK". While the intended meaning can be deduced, it is perhaps not the best message for an average Ada user.

For example, this three line source file
procedure BAD is

```
begin
```

```
yields this compiler output
```

```
3 begin
```

```
1
```

```
2
```

```
1 **SYN 1056 "NULL" followed by ";" has been inserted before  
"EOFMARK".
```

```
2 **SYN 1056 "END" followed by ";" has been inserted before  
"EOFMARK".
```

```
2 Errors detected. No warning issued. Compilation failed.
```

```
Fix information:
```

```
May be fixed in a future release.
```

KPR #: 4700822528 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

"Too many indicators" message may be unclear and can be truncated

Problem:

When the compiler encounters "too many" errors on a single line it can produce a message that says

Too many indicators

The meaning of this message is probably not clear to the average Ada user, improving the message or changing the documentation might be

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appropriate.

In addition, the "Too many indicators" message is sometimes displayed with part of the message truncated. This happens when the message indicators are in a column less than the length of the "Too many indicators" message.

Fix information:
May be fixed in a future release.

KPR #: 4700822866 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
Menu selected HELP from within an AdaProbe submenu is out of context

Problem:
Within a submenu, menu selection of the HELP command is not context specific, as documented. When invoking HELP with the Help_key, AdaProbe displays help information with respect to the submenu, but a menu selection of HELP within a submenu results in main menu help information.

KPR #: 4700822874 Product: ADA DS. - COMMON ADA-DSA 03.25

One-line description:
AdaProbe ASSIGN/EXAMINE defect with register OBJECTS in unoptimized code

Problem:
In the following program, a register tracking defect was detected by setting a breakpoint on the first PUT_LINE. EXEC.CONTINUE to the breakpoint, and then use OBJECT.ASSIGN to modify SSI. While stepping over this PUT_LINE, the original value rather than the modified value of SSI is displayed.

The program was compiled with all optimizations disabled.

```
with TEXT_IO;
use TEXT_IO;
procedure INTEGERS is
  SSI : SHORT_SHORT_INTEGER := SHORT_SHORT_INTEGER'FIRST;
  SI  : SHORT_INTEGER        := SHORT_INTEGER'FIRST;
  I   : INTEGER              := INTEGER'FIRST;
  N   : NATURAL              := NATURAL'FIRST;
  P   : POSITIVE             := POSITIVE'FIRST;
begin
  PUT_LINE("SSI => " & SHORT_SHORT_INTEGER'IMAGE(SSI));
  PUT_LINE("SI  => " & SHORT_INTEGER'IMAGE(SI));
  PUT_LINE("I  => " & INTEGER'IMAGE(I));
  PUT_LINE("N  => " & NATURAL'IMAGE(N));
  PUT_LINE("P  => " & POSITIVE'IMAGE(P));
end INTEGERS;
```

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KPR #: 4700822882 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
Inconsistent AdaProbe handling of quoted strings w/in INVOKE file.

Problem:
Command parameters of type string must be quoted differently when using the INVOKE file mechanism (which includes the start-up file) as compared to the assisted command facility.

For example, the equivalent to entering the following to the ARGUMENTS parameter of the EXEC.RESTART command within the Parameter List Window:

```
1 "name" 2
```

is the following when defining the ARGUMENTS parameter of the EXEC.RESTART command within an invoke file:

```
"1 "name" 2"
```

KPR #: 4700822957 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
AdaProbe's OBJECT.EXAMINE gives wrong value for some record components

Problem:
OBJECT.EXAMINE gives wrong value on a float (or long float) component of a record with a representation clause.

Fix information:
May be fixed in a future release.

KPR #: 4700829911 Product: ADA DS. - COMMON ADA-DSA 04.31

One-line description:
Floating point I/O with illegal number causes program to hang

Problem:
with TEXT_IO;
procedure cllov00906 is
use TEXT_IO;

```
package LONG_FLOAT_IO is new FLOAT_IO(LONG_FLOAT);
use LONG_FLOAT_IO;
```

```
type BYTE is range 0..255;
for BYTE'SIZE use 8;
```

```
begin
  PUT_LINE("TEST START");
  declare
    B0,B1,B2,B3,B4,B5,B6,B7: BYTE := 255;
  begin
    PUT_LINE("Declare Block initializing 8 bytes of stack space" &
      " to 0xFF");
  end;
  declare
```

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KPR #: 4700829911 **CONTINUED**

```

X : LONG_FLOAT;
begin
  PUT_LINE("Now attempting to print an uninitialized floating");
  PUT_LINE("point number, that just happens to have 8 bytes of");
  PUT_LINE("0xFF stored at it's location.");
  PUT("The value of X is ");
  PUT(X);
  NEW_LINE;
end;
PUT_LINE("TEST COMPLETE");
end;

```

KPR #: 4700831057 Product: ADA DS. - COMMON ADA-DSA 04.34

One-line description:
HLOPT incorrectly removes good code after FIXED'LARGE attribute.

Problem:

```

-- This procedure shows a bug in HLOPT.

-- On the line marked with asterisks, HLOPT thinks it will raise a
-- NUMERIC_ERROR. HLOPT gives the error message:
-- *HLO 4084 An argument of this expression cannot be correctly
-- represented in the base type. NUMERIC_ERROR will be
-- raised at run time.

-- Unfortunately, HLOPT then removes the statements after that line,
-- to the end of block.

-- The line in question does not raise an error, but instead gets
-- the correct answer, so the net effect is HLOPT has removed good
-- code.

```

```

with TEXT_IO;
procedure FIXD09_0M is

```

```

  DEL : constant := 1.0/2**15;
  type FIXED_16 is delta DEL range -1.0 .. +1.0-DEL;
  LOW : FIXED_16 := -1.0;
  HI : FIXED_16 := +1.0-DEL;
  subtype FIXED is FIXED_16 range LOW .. HI;
  F_SMALL, F_LARGE, F_DELTA, F_SAFE_SMALL, F_SAFE_LARGE :
    FIXED := 0.0;

```

```

  package F_IO is new TEXT_IO.FIXED_IO (FIXED);

```

```

begin -- FIXD09_0M

```

```

  begin
    F_SMALL := FIXED_SMALL;
    F_IO.PUT (F_SMALL); TEXT_IO.NEW_LINE;
    F_LARGE := FIXED_LARGE;
    -- *****

```

```

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```

KPR #: 4700831057 **CONTINUED**

```

F_IO.PUT (F_LARGE); TEXT_IO.NEW_LINE;
exception
  when CONSTRAINT_ERROR => TEXT_IO.PUT_LINE ("CONSTRAINT_ERROR");
  when NUMERIC_ERROR => TEXT_IO.PUT_LINE ("NUMERIC_ERROR");
end;
F_IO.PUT (F_LARGE); TEXT_IO.NEW_LINE;
end FIXD09_0M;

```

Temporary solution:

Do not use the high level optimizer, which means do not use "-O",
"+O e" or "+O p".

Note: the compiler has been changed to no longer remove the code,
but it still gives the incorrect message.

KPR #: 4700831065 Product: ADA DS. - COMMON ADA-DSA 04.34

One-line description:

HLOPT incorrectly removes checks, causing bad results

Problem:

```

-- This procedure shows a bug in HLOPT.

-- The line marked with asterisks, without any optimization, raises
-- NUMERIC_ERROR. This test therefore prints:
-- Starting...
-- NUMERIC_ERROR.

-- When HLOPT handles this line, it incorrectly switches off the
-- overflow check on the addition. It also assumes that the changed
-- line will raise CONSTRAINT_ERROR, and deletes the TEXT_IO call that
-- follows it as dead code.

-- On Ada/300, with the overflow check switched off, the addition
-- operates on 16 bits, and the true sum of 32768 wraps around and
-- becomes the value -32768. Therefore, the constraint check succeeds,
-- and no error is raised. Nothing further is printed, since the
-- following line has been removed. The test therefore prints:
-- Starting...
-- This is horrible, because no exception is ever raised, and the
-- non-exception code has been removed.

-- On Ada/800, with the overflow check switched off, the addition
-- operates in 32 bits, and the true sum of 32768 stays that way, so
-- the constraint check fails, and we raise CONSTRAINT_ERROR. The
-- test therefore prints:
-- Starting...
-- CONSTRAINT_ERROR.

-- This is not as bad, but still, HLOPT should not be changing the
-- exception raised.

```

```

with TEXT_IO;
procedure FIXD17_0M is

```

```

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```

KPR #: 4700831065 **CONTINUED**

```
-- fixed point type that maps fully into 16-bits
DEL_16 : constant := 1.0/2**15;
type FIXED_16 is delta DEL_16 range -1.0 .. +1.0-DEL_16;

begin -- FIXD17_0M

  declare
    Vi : FIXED_16 := 0.50;
  begin
    TEXT_IO.PUT_LINE ("Starting..."); -- *****
    Vi := Vi + 0.50;
    TEXT_IO.PUT_LINE ("No exception raised - 16-bit case 1");

  exception
    when NUMERIC_ERROR =>
      TEXT_IO.PUT_LINE ("NUMERIC_ERROR");
    when CONSTRAINT_ERROR =>
      TEXT_IO.PUT_LINE ("CONSTRAINT_ERROR");
    when others =>
      TEXT_IO.PUT_LINE ("Wrong EXCEPTION raised");
  end;

end FIXD17_0M;
```

Temporary solution:

Do not use the high level optimizer, which means do not use "-0", "+0 e" or "+0 p".

KPR #: 4700831073 Product: ADA DS. - COMMON ADA-DSA 04.34

One-line description:
HLOPT incorrectly thinks conversion will raise error

Problem:

```
-- This procedure shows a bug in HLOPT.
--
-- On the line marked with asterisks, HLOPT believes that the line
-- will raise NUMERIC_ERROR. HLOPT then attempts to delete the
-- TEXT_IO call since it thinks it is dead code. This has been
-- disabled, but the error message still indicates that the code
-- will be removed.
--
-- In fact, there is no NUMERIC_ERROR in that line, since
-- 127 is in the range of the 8 bit integer. Therefore, at
-- runtime, no error is raised.
```

```
with TEXT_IO;
procedure FIXD24_0M is
```

```
begin -- FIXD24_0M
```

```
  declare
```

```
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```

KPR #: 4700831073 **CONTINUED**

```
type F1 is delta 0.125 range 100.0 .. 1900.0;
V2F1 : F1 := 127.34;
I2_8 : SHORT_SHORT_INTEGER;

begin
  I2_8 := SHORT_SHORT_INTEGER ( V2F1 ); -- *****
  TEXT_IO.PUT_LINE (SHORT_SHORT_INTEGER'IMAGE (I2_8));
  exception
    when others =>
      TEXT_IO.PUT_LINE ("EXCEPTION RAISED");
  end;
```

end;

Temporary solution:

Do not use the high level optimizer, which means do not use "-0", "+0 e" or "+0 p".

Note: the compiler has been changed to no longer remove the code, but it still gives the incorrect message.

KPR #: 4700831826 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

Creation of direct access file that exists doesn't delete old file

Problem:

Creation of a direct access file by giving an existing file name abnormally doesn't delete the old file.

Test program follows:

```
with DIRECT_IO, IO_EXCEPTIONS, TEXT_IO;
```

```
use IO_EXCEPTIONS;
```

```
procedure Jpl1046 is
```

```
package DIR_IO is new DIRECT_IO(INTEGER);
```

```
FILE : DIR_IO.FILE_TYPE;
```

```
X : INTEGER;
```

```
begin
```

```
  DIR_IO.CREATE(FILE, MODE => DIR_IO.OUT_FILE, NAME => "JPL1046.file");
```

```
  DIR_IO.WRITE(FILE, 1);
```

```
  DIR_IO.WRITE(FILE, 2);
```

```
  DIR_IO.CLOSE(FILE);
```

```
  DIR_IO.CREATE(FILE, MODE => DIR_IO.OUT_FILE, NAME => "JPL1046.file");
```

```
  DIR_IO.WRITE(FILE, 3);
```

```
  DIR_IO.CLOSE(FILE);
```

```
  DIR_IO.OPEN(FILE, MODE => DIR_IO.IN_FILE, NAME => "JPL1046.file");
```

```
  DIR_IO.READ(FILE, X);
```

```
  if X /= 3 then
```

```
    TEXT_IO.PUT_LINE("Failed, bad read");
```

```
  end if;
```

```
begin
```

```
  DIR_IO.READ(FILE, X);
```

```
  TEXT_IO.PUT_LINE("Failed, END_ERROR not raised");
```

```
exception
```

```
  when END_ERROR =>
```

```
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```

KPR #: 4700831826 **CONTINUED**

```
TEXT IO.PUT_LINE("Passed, END_ERROR raised");
when others =>
  TEXT IO.PUT_LINE(
    "Failed, others exception than END_ERROR raised");
end;
DIR IO.CLOSE(FILE);
end jpl1046;
```

Temporary solution:
Delete the existing file before creating it the second time.

KPR #: 4700831875 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
FLOAT IO.GET on STRINGS does not raise DATA_ERROR on INTEGER literal

Problem:
FLOAT IO.GET on STRINGS reading an INTEGER string literal ("1234") abnormally does not raise DATA_ERROR (but rather, interprets it as 1.234E-01). A test case follows:

```
with TEXT_IO;
procedure LTD2545 is
  F : FLOAT;
  P : POSITIVE;
begin
  package F_IO is new TEXT_IO.FLOAT_IO (FLOAT);
  F_IO.GET ("1234" F, P);
  TEXT_IO.PUT ("F is ");
  F_IO.PUT (F);
  TEXT_IO.NEW_LINE;
exception
  when TEXT_IO.DATA_ERROR =>
    TEXT_IO.PUT_LINE ("DATA_ERROR raised.");
end;
```

Temporary solution:
Make sure the string is a legal float, in other words, append ".0" to the end.

KPR #: 4700831891 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
Non-blocking open for a terminal can block

Problem:
If you open a terminal device in non-blocking mode, either by default in a tasking program, or with the appropriate form parameter, the open itself will block if the terminal device has full modem control and there is no "carrier detected".

This behavior defeats the purpose of non-blocking I/O as the entire program will stop until the open completes (when a "carrier" is

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KPR #: 4700831891 **CONTINUED**

detected).

Temporary solution:
There is no workaround at this time other than to not open tty devices with full modem control unless you can afford to block on the open.

Fix information:
This defect may be repaired in a future release.

KPR #: 4700835306 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
Bad error message for conversion of string catenation.

Problem:
Compiler gives incorrect error message, indicating argument of an explicit conversion must not be a string literal, when the argument is OK (ie, not a string literal). The test program is:

```
package ERROR_PKG is
  type ERROR_RANGE is range 1..80;
  type ERROR_MESSAGE is array (ERROR_RANGE range <>) of CHARACTER;
end ERROR_PKG;

with ERROR_PKG;
package MY_ERRORS is
  DUMMY_ERROR_MESSAGE: constant ERROR_PKG.ERROR_MESSAGE
    := ERROR_PKG.ERROR_MESSAGE ("1234567890" & "1234567890");
end MY_ERRORS;
```

The error message says:
**SEM 3125 The operand of a type conversion is not allowed to be a string literal.

Note that the operand of the conversion is a simple_expression (RM 4.4), and is not a string literal, so this code should compile without error.

Temporary solution:

The workaround is to put a string qualification on the first argument of the type conversion, ie:
:= ERROR_PKG.ERROR_MESSAGE (string'("1234567890") & "1234567890");

KPR #: 4700835397 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

Submit incorrectly hides renaming declaration of derived function.

Problem:

In a subunit, we lose visibility of a renaming of a derived function. The following shows the problem:

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```

package PACK1 is
  type Time_Type is record
    Seconds: INTEGER;
  end record;
  function "-" (Left: in Time_Type) return Time_Type;
end PACK1;

with PACK1;
package PACK2 is
  -- Introduce derived "-" here.
  type Time_Type is new PACK1.Time_Type;
end PACK2;

with PACK2;
procedure TEST is
  -- rename the derived subprogram
  function "-" (Left: in PACK2.Time_Type)
    return PACK2.Time_Type
  renames PACK2."-";
  procedure SUB_PROC is separate;
begin
  null;
end;

separate (TEST)
procedure SUB_PROC is
  T: PACK2.Time_Type;
begin
  T := -T; -- GET ERROR MESSAGE HERE
end SUB_PROC;

```

The error message says:
 ** IDE 2050 The type of this expression conflicts with the type
 TIME_TYPE imposed by the context.

It appears that in the process of handling the separate, the
 compiler loses the renaming of the derived subprogram.

Temporary solution:
 Put the separate unit back inline at the point of its body stub,
 or repeat the renaming declaration in the separate unit.

KPR #: 4700839605 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
 Instantiation of generic in package spec. raises PROGRAM_ERROR

Problem:
 -- A generic instantiated in a package specification causes
 -- PROGRAM_ERROR. Test program follows:

```

package genbug is
  generic

```

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Known Problem Reports as of 07/23/90

KPR #: 4700839605 **CONTINUED**

```

procedure one; -- Info: Parameterless generic procedure.
procedure two;
procedure three is new one; -- Error: causes PROGRAM_ERROR
end genbug;

with text_io; use text_io;
package body genbug is
  procedure one is
  begin
    put_line("one called.");
  end one;
  procedure two is
  procedure four is new one; -- OK: no error here
  begin
    put_line("two called.");
  end four;
end;
end genbug;

with genbug;
with text_io; use text_io;
procedure genmain is
begin
  genbug.two;
  genbug.three;
end genmain;

```

KPR #: 4700839696 Product: ADA DS. - COMMON ADA-DSA 04.10

One-line description:

Predefined operator may incorrectly not be hidden by a later homograph

Problem:

A predefined (derived) operator is sometimes abnormally not
 hidden by a later explicit homograph operator declaration:
 the predefined is still chosen when a further selected usage
 is made (like P "+"). This is wrong overloading resolution.
 Test program follows:

```

package pack is
  type int is range 0..5;
  function ">"(l,r:int) return boolean;
end pack;

--
package body pack is
  function ">"(l,r:int) return boolean is
  begin
    return true;
  end;
end pack;

with text_io; use text_io;
with pack;
procedure SA3469 is
begin

```

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KPR #: 4700839696 **CONTINUED**

```

declare
-- the following pack.>" is the wrong one !!
x:boolean:=pack.>"(pack.int'(0),pack.int'(5));
use pack;
y:boolean:=">"(int'(0),int'(5));
z:boolean:=int'(0) > int'(5);
begin
    put_line(boolean'image(x));
    put_line(boolean'image(y));
    put_line(boolean'image(z));
end;
put_line("Test PASSED if it says : TRUE TRUE TRUE ");
end SA3469;

```

Temporary solution:
Do not use the selected notation in this case, use the simple name instead. This means that you need a "use" clause for the package.

KPR #: 4700839753 Product: ADA DS. - COMMON ADA-DSA 04.30

One-line description:
Library manager family information can be "out of date"

Problem:

The library manager "reads in" information about the current family when it is started up and when the OTHER command is used.

It does not keep the family locked, nor "reread" the information, when performing other commands.

We will call this invocation of the library manager the "original" library manager.

Given this behavior, other users can modify the family with other instances of the library (or family) manager, and these changes would not be known to the "original" library manager.

The "original" library manager could then operate "incorrectly". This could range anywhere from "Listing" libraries that no longer exist or have been renamed, to attempting to manipulate such libraries and failing with error messages that could be misleading to the user.

Since locking the family for the duration of a library manager invocation is probably not a good idea, at a minimum this behavior should be documented so that users are at least warned. But it would also be worthwhile to consider if there are other (longer term) solutions that would actually prevent "incorrect" library manager behavior (e.g. perhaps migrating the family/library model into a real data base management system).

KPR #: 4700839761 Product: ADA DS. - COMMON ADA-DSA 04.30

One-line description:
Mend and Rename allowed with libraries locked, locks may be lost

Problem:
The family manager can perform a MEND or RENAME operation on a family which contains libraries which are currently locked and such locks will be destroyed by the operation.

The behavior should at least be documented for the user, so that they can take appropriate precautions. In the longer term other options should be considered so the user does not need to take such precautions (such as migrating the family/library model into a true data base management system).

KPR #: 4700840561 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
Ada tasks that call interface code may behave incorrectly

Problem:

Ada tasks that call interface code may behave incorrectly if the interface code allocates too much space on the stack. Some routines in libc (e.g. sprintf) use nearly 8K of space on the stack. If an Ada task calls such a routine (either directly or indirectly) the task stack may overflow. The effect of this problem may be that the error "Global blocking situation detected" is produced. This problem is an unfortunate result of the fact that languages other than Ada do not do overflow checking on task stacks, so that when the stack overflows, it is not detected properly.

The compiler option "-W b,-t,<nnn>" may be used to change the size of the task stack. The default task stack size is 8K. Users of GKS/Ada binding and Starbase/Ada binding are advised to use stack sizes of at least 16K on the series 300 if calls are made from tasks to subprograms in the bindings. This should be documented in the manual.

Temporary solution:

The workaround for this problem is to use the binder option to the ada command to specify a larger task size:

-W b,-t,<nnn>.

For users of the GKS or Starbase bindings, it is recommended that a minimum value of 16K be used, i.e.

-W b,-t,16

Fix information:

See KPR # 4700905174. It asks to have the default task stack size increased to 32K.

KPR #: 4700843672 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
Compiler aborts on invalid comparison involving renamed "="

Problem:

KPR #: 4700843672 **CONTINUED**

Comparisons involving incompatible operands and renamed "=" operators apparently cause the compiler to abort. The following source causes such a compiler abort. The offending statement is apparently the erroneous comparison in the body of TEST_F00.

```
package F00 is
  type TYPE_ONE is new INTEGER range 1..10;
  type TYPE_TWO is new INTEGER range 2..11;
  THREE : constant TYPE_ONE := 7;
  function RESULT return TYPE_TWO;
end F00;

with F00;
procedure TEST_F00 is
  function "=" (RIGHT: F00.TYPE_ONE; LEFT: F00.TYPE_ONE)
    return BOOLEAN renames F00."=";
  function "=" (RIGHT: F00.TYPE_TWO; LEFT: F00.TYPE_TWO)
    return BOOLEAN renames F00."=";
```

```
begin
  -- This comparison should be illegal.
  if F00.RESULT = F00.THREE then
    null;
  end if;
end;
```

Temporary solution:

-- The following code gives 3 examples of workarounds for the -- problem of renaming "=".

```
package F00 is
  type TYPE_ONE is new INTEGER range 1..10;
  type TYPE_TWO is new INTEGER range 2..11;
  THREE : constant TYPE_ONE := 7;
  function RESULT return TYPE_TWO;
end F00;

with F00;
procedure TEST_F00 is
```

```
  function EQ (RIGHT: F00.TYPE_ONE; LEFT: F00.TYPE_ONE)
    return BOOLEAN renames F00."=";
  function EQ (RIGHT: F00.TYPE_TWO; LEFT: F00.TYPE_TWO)
    return BOOLEAN renames F00."=";
```

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KPR #: 4700843672 **CONTINUED**

```
function "=" (RIGHT: F00.TYPE_TWO; LEFT: F00.TYPE_TWO)
  return BOOLEAN renames F00."=";
```

```
begin
```

```
  -- The compiler can correctly reject this syntax error.
  if EQ (F00.RESULT, F00.THREE) then
    null;
  end if;
```

```
  -- This has just fully qualified the original "=" from
  -- package F00. It is correctly rejected.
  if F00."=" (F00.RESULT, F00.THREE) then
    null;
  end if;
```

```
  -- With correct Ada syntax, the equal can be redefined.
  if F00.RESULT = F00.RESULT then
    null;
  end if;
```

```
end;
```

Fix information:

This defect may be repaired in a future release.

KPR #: 4700857698 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

Listing process does not check for I/O errors, allows SIGPIPE to occur

Problem:

If you run the compiler and request either a compiler listing or an assembly listing (or both), which will be written to stout, and you pipe the output into a process that terminates without reading all the listing, the ada(1) program will report, for example

```
ada: Warning: Signal 13 (write on a pipe with no one to read) while
compiling test.ada
```

This indicates that the ada(1) program saw the compiler terminate abnormally with a signal 13. It isn't "too wrong" for the compiler to terminate that way, it internally cleans up on that signal, but it may be disconcerting to the user to see that message (which is rarely seen from any other Unix utility).

Fix information:

May be fixed in a future release.

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KPR #: 4700857714 Product: ADA DS. - COMMON ADA-DSA

04.35

One-line description:
The Unit Manager does not list desired units when library is large.

Problem:
A library containing approximately 660 units was created.

When I said:
list (units => mac, detail => full)
the Unit Manager came back with a null response leading me to believe that the unit MAC did not exist in the library. However, if I said:
list (detail => full)
the resulting list of all units in the library DID contain MAC (spec and body).

Temporary solution:

If the unit manager doesn't find units specified with the "units=>" parameter of the list command, don't use that parameter, and let the unit manager default to listing all units in the library.

Fix information:

May be fixed in a future release.

KPR #: 4700861740 Product: ADA DS. - COMMON ADA-DSA

04.31

One-line description:
Time slicing seems to be ineffective in heavy I/O situations

Problem:
If a task performs I/O it gets to run for a longer period of time than the time slice value would seem to indicate it should.

Cause:

The timer used to calculate time slices only counts process time spent in actual user code, it does not count the process time spent in HP-UX code on behalf of the process. As most I/O time is spent in HP-UX code the time slice runs out very slowly (very little non HP-UX code is being executed by the Ada process). Hence time slicing is "fair" for a program containing all compute bound tasks, but "unfair" as soon as an I/O bound task appears.

Temporary solution:

Setting a very small time slice value will produce the most "fair" behavior, but then the process of task switching itself will begin to be a significant part of the CPU usage and the application will get less actual processing time.

Fix information:

This defect may be repaired in a future release.

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KPR #: 4700866459 Product: ADA DS. - COMMON ADA-DSA

04.35

One-line description:
Paths that end with .+ or ..+ may be reported by the NAME function

Problem:

If an Ada program has a directory open as a file, and that directory is a CDF, and the program opened the directory with a path whose last component was .+ or ..+, the NAME function will return a path with the .+ or ..+ intact.

The NAME returned is correct, but since appearances of . and .. are "normalized" to explicit names, so .+ and ..+ should be normalized as well.

Temporary solution:

The NAME returned is a legal name that can be used to access the CDF directory object, it is simply not consistent with similar names which involve . and .. components. Such names can simply be avoided, in favor of the explicit name without the .+ or ..+, if desired.

Fix information:

The path name resolution code was modified to properly resolve path names that end with the component .+ or ..+ such that the result returned by the NAME function will not end with .+ or ..+ (the returned path will be "normalized" to reflect the effect of the .+ or the ..+).

KPR #: 4700866475 Product: ADA DS. - COMMON ADA-DSA

04.35

One-line description:
Working directory not restored after error when it could be

Problem:

When the Ada I/O code is resolving the fully rooted path to a file (e.g. during an OPEN or CREATE call for later use by the NAME function) it changes the current working directory during the process. Normally it restores the correct working directory when it is done resolving the path. However, on rare occasions, if the path resolution fails, it sometimes fails to restore the correct working directory. With the working directory not correctly restored, subsequent name resolution calls tend to also fail even though there is nothing actually wrong with the subsequent names (and so subsequent OPEN and CREATE calls tend to raise NAME ERROR or USE ERROR when in fact no such error has actually occurred). In addition, the program could easily fail without doing any subsequent OPEN or CREATE operations, because it will be operating with a different working directory than the one it believed it was in.

This is known specifically to happen when any directory in the fully rooted path of a file being OPENED or CREATED has search (x) permission for the effective user/group, but does not have read (r) permission for the effective user/group. The Ada I/O will fail to resolve the rooted path to that file, and will fail to restore the correct working directory.

Temporary solution:

Make sure that all directories in the paths to files that will be accessed by Ada programs have both read (r) and search (x) permission

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KPR #: 4700866475 **CONTINUED**

for the effective user/group of the users of the Ada programs.

Fix information:

This defect may be repaired in a future release.

KPR #: 4700875286 Product: ADA DS. - COMMON ADA-DSA 04.35

Keywords: COMPILER

One-line description:
Compiler gives incorrect error on 'SIZE clause for a private type

Temporary solution:

The workaround to this is to comment out the 'SIZE representation clause. On this compiler, the size is set by the record representation clause, and the 'SIZE clause is basically an assertion, in that it just gives an error if the size doesn't match what the compiler already knows.

For safety, in the package body, insert code to (at run time) take the 'SIZE attribute and compare it with the expected value. If it doesn't match, abort the program.

Another workaround would be to remove the private part, and make all types involved non-private.

KPR #: 4700880245 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
Improve Appendix F so that it describes how to use RECORD_SIZE FORM parm

Problem:

The Appendix F manual does not clearly describe the size needed for the RECORD_SIZE part of the FORM parameter. It describes in detail the structure of the data in the file, ie:

```
[ HEADER ] OBJECT [ UNUSED PART ]
```

But it never says that the RECORD_SIZE you specify must include enough space for the HEADER and the OBJECT. I thought it was enough to include space just for the OBJECT, but this is not the case. This effects both the S300 and the S800. In the S300 manual, this information should go into section F 8.2.9.2.

Fix information:

The Reference Manual for the Ada Programming Language, Appendix F has been modified to properly describe the use of the RECORD_SIZE form parameter.

KPR #: 4700882142 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:
If the environment variable ENV is set some ada.xxx commands may fail

Problem:

Some of the ada.xxx (like ada.mklb) style commands are implemented as ksh scripts. A "feature" of ksh is that it will "source" the contents of the file which is the value of the ENV environment variable when it

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KPR #: 4700882142 **CONTINUED**

begins execution, even if it is executing a script (i.e. is not interactive).

Since such a file can "do" anything, it can cause the Ada command script to fail. Specifically if the file defines aliases for standard commands or performs an operation that changes the values of the positional parameters, the ada commands may fail or may perform unexpected actions.

Temporary solution:

The standard technique for working around this problem is to set up ENV so that it is only the name of a file when the shell being started is interactive. Hence ENV is empty for non-interactive invocations of ksh and so the ada.xxx commands do not cause an ENV file to be read. The traditional incantation for that, which usually resides in the file \$HOME/.profile is

```
export START=$HOME/.kshrc
export ENV=${START[(($_=1))+($_=0)-($_=-$_%*i*)]}
```

where you define START as whatever file you do want "sourced" for interactive ksh invocations. Don't worry too much about how it works, it does (I believe it is explained in Korn's book on ksh).

You can also

1. Unset ENV before running Ada commands.

or

2. Unset ENV at the end of the file that it (ENV) specifies. The first interactive ksh will then reads ENV but no subsequent ksh will (interactive or not).

but the magic incantation above is the most convenient.

KPR #: 4700883488 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

Compiler gives variety of incorrect errors on too many units in library

Problem:

The compilers detection of "Too many units in library" is not very good. The following test fails on Ada/300, and is assumed to fail on Ada/800 as well.

Test procedure:

1. Create a new library (it will contain only the 13 predefined link units).

2. Compile this spec:

```
package UNITS is
end UNITS;
```

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KPR #: 4700883488 **CONTINUED**

3. Compile this body with varying values of N (i.e. various numbers of the separate procedures):

```

package body UNITS is
  procedure P1 is separate;
  .
  .
  .
  procedure PN is separate;
begin
  null;
end UNITS;

```

4. Go back to step 1 for a different value of N (i.e. always start with a new library to there are no random units in the library to perturb the results).

5. The following results are observed (note that most of the PROGRAM_ERROR failures are at varying places [except where noted], there is no obvious consistency in the tracebacks):

```

1 <= N <= 1022 - Compilation succeeds

N = 1023 - Compilation fails with no error message (or
          sometimes with a PROGRAM_ERROR and an empty
          traceback)

N = 1024 - Compilation succeeds

N = 1025 - Compilation fails with PROGRAM_ERROR [at
          varying places, but not where it is noted as
          occurring for N >= 4075]

N = 1026 - Compilation fails with segmentation violation
          (but compiler does not report it).

1027 <= N <= 1030 - Compilation fails with PROGRAM_ERROR [at
          varying places, but not where it is noted as
          occurring for N >= 4075]

4075 <= N <= 4080 - Compilation fails with PROGRAM_ERROR [always
          in unit CTXM_INSERT_UNIT in scope
          RECORD_DEP_LIST at line 92]

4081 <= N <= 4085 - Compilation fails with MAN H002 Compilation
          stopped in IDE at line 4082 due to a compiler
          limitation.

```

6. There are 15 "fixed" units in this test, the 13 links to the predefined unit and the spec and body of the package. Note that the MAN H002 error appears at 4081+15=4096 total units. So the front end apparently traps that case (although MAN H002 doesn't tell the user much, an error that said too many units/separates

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KPR #: 4700883488 **CONTINUED**

for library would be better).

However, long before that, at 1023+15=1038 total units it fails to compile with an internal error (although 1039 units does compile for some reason) and then presumably for 1040 through 4095 total units it also fails to compile with an internal error. It would appear that a limit check is missing, or is present but is checking for a higher limit than the internals of the compiler can actually support.

Temporary solution:

Keep the number of units in a library low. The actual limit is not clear, and seems to depend on a number of factors, including how many are library units and how many are subunits.

KPR #: 4700887711 Product: ADA DS. - COMMON ADA-DSA 04.35

Keywords: COMPILER

One-line description:

Size of record component that is mutant record cannot exceed 8192 bytes

Problem:

Compilation fails on a record with a component which is itself a unconstrained discriminated record with default discriminant values. The compiler message is:

**SEM 3279 COMPILER CAPACITY EXCEEDED: The component FIELD is a record with defaulted discriminants; the size of such a component cannot potentially exceed 8192 storage units - Appendix F.

Temporary solution:

There is a patch available, to replace the limited version of the ada compiler with a version that allows up to 24K records. The patch is too big to put on the Fort Collins SE machine (hpfcse). If you want a copy, call the Ada support line at 408/447-5900.

KPR #: 4700899278 Product: ADA DS. - COMMON ADA-DSA 04.35

Keywords: TOOLS

One-line description:

ada.make incorrectly does not compile units dependent on invalid link

Problem:

Ada.make utility does not issue compilation of unit that depends on an invalid link.

Example: you have two files, as follows:

File "packa.ads": File: "main.adb"

```

package A is
  I: integer;
end A;

with A;
procedure MAIN is
begin

```

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KPR #: 4700899278 **CONTINUED**

```

A.I := 3;
end MAIN;

```

Create two libraries: "rel" and "dev". Compile packa.ads into "rel". Run: "ada.make -s rel dev main.adb" and execute the result. This makes a link from dev to rel for unit A and compiles MAIN into dev. Next, touch packa.ads, and recompile it into "rel". Run: "ada.make dev". The result re-establishes the link to A, but incorrectly DOES NOT issue a compile command for MAIN.

Temporary solution:

There is a patch available for Ada/300, to replace the faulty version of the ada.make tool with a working version. The patch is on the Fort Collins SE machine (hpfscse) directory ~ftp/unsupp-patches/300-7.0/Ada. The file README in that directory explains the patch. The distribution mechanism is subject to change, so if you have any problems getting the patch, call the Ada support line at 408/447-5900.

KPR #: 4700900720 Product: ADA DS. - COMMON ADA-DSA 04.35

Keywords: RUNTIME

One-line description:

TEXT_IO.SET_INPUT on closed file can cause STATUS_ERROR on re-OPEN

Problem:

If I use text_io.set_input on a closed file, then re-open it, I get STATUS_ERROR. The following code shows the problem, it gets STATUS_ERROR on the OPEN on the second time through the loop.

```

with text_io; use text_io;
procedure fileit is
  file_handle : file_type;
  C: character;
begin
  for I in 1..3 loop
    put_line ("IN LOOP");
    open (file => file_handle, mode => in_file, name => "arith.dat");
    set_input (file_handle);
    get (C);
    close (file_handle);
    set_input (standard_input);
  end loop;
end fileit;

```

Temporary solution:

One possible workaround is change the order of the close/set_input to be "set_input (standard_input);" followed by "close (file_handle);". If you make this change, it works fine.

Duplicate Service Requests: 4700839704

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KPR #: 4700903591 Product: ADA DS. - COMMON ADA-DSA 04.35

Keywords: RUNTIME

One-line description:

Input from FIFO pipes incorrectly reads to far ahead, causing blocking

Problem:

Using TEXT_IO to read a FIFO pipe with FORM->"NON BLOCKING", it incorrectly attempts to read part of the next line before processing the current line. If you have one program writing lines to the pipe, and another reading lines, they get out of sync, because the reader tries to read too far. Should treat pipes like terminals, and not read ahead past the end of the line.

Temporary solution:

This only occurs with TEXT_IO, so if the data is such that you can use SEQUENTIAL_IO, the problem will not occur.

KPR #: 4700904516 Product: ADA DS. - COMMON ADA-DSA 04.35

Keywords: COMPILER

One-line description:

Compiler needs "-u" to avoid infinite loop on too many generic instances

Problem:

An attempt to compile a unit with many generic instantiations causes compiler to get into an infinite loop and never terminate. If I use the "-u" compiler option, it works fine, so there is an easy workaround. The example program has 17 instantiations of DIRECT_IO with different complex record and string types.

Temporary solution:

Use the compiler option "-u" to compile the generics as separate compilation units. This avoids the problem.

KPR #: 4700905174 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

Change default task stack size to 32K.

Problem:

Currently, the default for the size of a task stack is 8K. This is too small for many applications. This should be changed to 32K.

Temporary solution:

Use the binder option "-W b,-t,nmn" to over-ride the default.

KPR #: 4700905182 Product: ADA DS. - COMMON ADA-DSA 04.35

One-line description:

AdaProbe can't display FOR variables

Problem:

AdaProbe has difficulty displaying variables introduced by the FOR statement. This maybe because the variable is temporary, has a scope

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KPR #: 4700905182 **CONTINUED**

limited to the loop, and is probably promoted to a register. In any case AdaProbe doesn't seem to have enough information about this variable to display it properly when you request an object examine. The following test program was used to exhibit AdaProbes behaviour on the 300 and 800:

```
with TEXT_IO;

procedure LOOP_VAR is
begin
  for I in 'A' .. 'Z' loop
    TEXT_IO.PUT_LINE ("I = " & CHARACTER'IMAGE (I));
  end loop;

  for I in 1 .. 26 loop
    TEXT_IO.PUT_LINE ("I = " & INTEGER'IMAGE (I));
  end loop;
end LOOP_VAR;
```

If you set a break point on the first TEXT_IO statement and try to Object Examine I, AdaProbe displays I => <Unknown>. This happens on both the 300 and the 800. If you reset your break point to the second TEXT_IO and Object Examine I again you will see I => 0 on the 300 and the correct value on the 800. I have not tried any other types of loop variables such as integer subtypes, derived types and the like.

Temporary solution:

In the program being debugged, copy the "for" variable into a regular variable at the beginning of the loop. Then in ada.probe, examine the regular variable.

KPR #: 4700910489 Product: ADA DS. - COMMON ADA-DSA 04.35

Keywords: COMPILER

One-line description:

Bad error message on library exceeding max size of 33,553,408 bytes

Problem:

If an Ada library exceeds a size of 33553408 bytes, the compiler gives strange error messages, of the form:
 *** MAN H004 Compilation stopped in SEM due to a compiler limitation.
 No line number is available.

Temporary solution:

Instead of one big library, split your application into multiple libraries. You can have the necessary links built automatically using the "ada.make" command.

KPR #: 5000558130 Product: ADA DS. - COMMON ADA-DSA 04.35

Keywords: RUNTIME

One-line description:

FLOAT_IO.PUT incorrectly raises LAYOUT_ERROR on large negative number.

Problem:

This problem can be shown by the following:

```
with text_io; use text_io;
procedure test is
  package F_IO is new float_io (float);
  a: float := -2.0;
begin
  -- This works fine for awhile, then aborts when A is -20000000.0
  -- According to LRM 14.3.8, this should work.
  loop
    F_IO.PUT (A, fore => 2, aft => 2, exp => 0);
    new_line;
    A := A * 10.0;
  end loop;
end test;
```

Temporary solution:

Change the value of the parameter "fore" to be 3, and the problem will not occur.

KPR #: 4700890939 Product: ADA SOFTBENCH COMMON ADA-SBA

00.00

One-line description:

Resizing of FLU Managers may corrupt window layout

Problem:

After reducing the window size of a Family, Library, or Unit Manager such that window regions are "lost", this state is not corrected once you enlarge to the original size.

Cause:

In the FLU encapsulations, each vertical row of widgets resides in its own pane. We wanted to have sashes only on those panes that it makes sense to resize (the list panes and results area panes). The only way to do this is to set the Min and Max resources to the same value on the pane that you do not want to have a sash. Unfortunately, the Encapsulator team found a bug (I believe it was in the X toolkit) that caused something to go wrong when a pane was sized very small. They implemented a workaround in the Encapsulator, which is to always set the value of Min to 3. Once this has been set, there is no way to change the value from the encapsulation.

Because of this, it is not possible to selectively use sashes in an Encapsulation. We decided that rather than have many sashes, most of which were useless, we would have no sashes at all and let the user set the size of the list and results area panes in their .xdefaults file. They can still change the size of the bottom pane (the "results" area) interactively. We later found, however, that if the window is made very small (for example, so that all panes are reduced to their minimum size), that when the window is later expanded panes are not reasonably vertically resized. Since there are no sashes, the user cannot correct this situation.

Temporary solution:

There is currently no workaround for this problem.

Fix information:

This problem may be corrected in a future release.

KPR #: 4700890947 Product: ADA SOFTBENCH COMMON ADA-SBA 00.00

One-line description:

FLU encapsulations may not run on remote data

Problem:

The Family, Library, and Unit Managers do not start when the host context is set to a remote machine.

Cause:

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KPR #: 4700890947 **CONTINUED**

The problem is due to differences in how "encapsulate" searches for the .edl file and how "encaprun" searches for the .cedl file. "encaprun" is doing it wrong. In addition, it seems that it is doing it wrong in such a way that the -searchhost and -searchpath command line options have no effect.

Temporary solution:

The workaround is to start the tool with data context set to the local machine, and then change context to the remote machine using the "File: Set Context" menu.

Fix information:

This problem will be fixed in the next release.

KPR #: 4700890962 Product: ADA SOFTBENCH COMMON ADA-SBA 00.00

One-line description:

Dev. Mgr. incorrectly identifies Ada Static Analysis files as executable

Problem:

Static Analysis File Sets for Ada sources have the file name pattern: *.ad?q

Development Manager should recognize these files as Static Data files and not as executables. This error prevents the user from selecting the Show Functions action on an Ada Static Analysis file type.

In particular, it would be nice if when such a file was selected, the Static Analyzer were invoked on this file.

Temporary solution:

In order to perform Static Analysis on Ada source files within a directory, do the following:

- Choose the desired source file which is to be analyzed.
- Select the menu item "Actions: Show Functions".

or:

- Choose the menu item "Directory: Static Analysis->Current Directory"

Using either of these methods enables you to statically analyze your Ada source files.

Fix information:

This defect may be fixed in the next release.

KPR #: 4700890970 Product: ADA SOFTBENCH COMMON ADA-SBA 00.00

One-line description:

Program Builder may not recognize references to Ada Ref. Manual

Problem:

- ADA SOFTBENCH COMMON -

Known Problem Reports as of 07/23/90

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KPR #: 4700890970 **CONTINUED**

Compilation errors when compiling an Ada source file are normally selectable for browsing by the user. If the error contains a reference to the Ada Language Reference Manual, selecting such an error results in the Reference Manual Browser being invoked and positioned at the appropriate section.

When two or more errors occur on the same line, and the first one contains a reference to the Language Reference Manual, Program Builder does not detect this reference.

Temporary solution:

There is no workaround to this problem.

Fix information:

This defect may be fixed at the next release.

Known Problem Reports as of 07/23/90

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KPR #: 5000195735 Product: AGP/DGL - MU 98600B 06.50

One-line description:
ZIDRW incorrectly interprets current window coordinates

Problem:

Customer found that the zidrw routine, in DGL, does not work properly on a S200 running hpux 5.1. Zidrw does not seem to correctly interpret the current window coordinates, as specified with a zwind call. The problem can be worked around by using zdraw instead.

Temporary solution:

Use zdraw.

Update S200 to 5.22 AGP/DGL

Fix information:

Will not be fixed.

KPR #: 4700826735 Product: COBOL/HP-UX S300 35322B 01.06

One-line description:
Repeated calls to X"82" consume memory

Problem:
Repeated calls to X"anything" consumes memory.

Cause:
Not all memory is being properly released

Fix information:
Fixed in B.02.01

Signed off 05/25/90 in release B02.01

KPR #: 4700880062 Product: COBOL/HP-UX S300 35322B 01.08

One-line description:
Numeric move does not move correct value

Problem:
Moving a numeric value from a data item with usage comp to a data item with usage display produces the wrong value. This problem appears in native code programs.

Fix information:
In order to receive this fix: All native code must be recompiled

KPR #: 4700884635 Product: COBOL/HP-UX S300 35322B 01.08

One-line description:
Signed numeric decimal move does not move the correct value

Problem:
Moving a numeric value from a data item declared as signed numeric with an assumed decimal point to a signed numeric data item without a decimal point moves the wrong value. This problem appears in native code programs.

KPR #: 5000522854 Product: COBOL/HP-UX S300 35322B 01.06

One-line description:
Compiler option ODOSLIDE causes native code program to abort

Problem:
Compiler option ODOSLIDE causes error 153 "Subscript out of Range" when used with an OCCURS clause.
Only occurs with native code, intermediate code is correct.

Fix information:
In order to receive this fix: All native code must be recompiled
All code must be re-linked
A new animator must be used

- COBOL/HP-UX S300 -

KPR #: 4000033357 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

File search indexes allow dup. names and leading/embedded spaces.

Problem:

File search indexes allow dup. names and leading/embedded spaces.
Detailed instructions for duplicating problem:

It is possible to create two (or more) search indexes with the same name. It should work the same way as code indexes (i.e. second create should put user in existing index with same name.)

There is a separate bug that applies to all three types of file index browsers. It is legal to create a browser with a name that is all blanks, but the browser commands for moving up and down in a list of indexes will ignore blank lines even when those lines are for normal items. There should probably be a requirement that index names contain at least one printing character.

Fix information:
Will not fix.

KPR #: 4000033373 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Find file on read protected file creates an empty buf. & new file msg.

Problem:

Find File on read protected file creates an empty buffer & new file message.
Detailed instructions for duplicating problem:

When the Find File command (C-X C-F) is given for a file that is read protected, an error message should be displayed. Instead, the command treats this case the same as an attempt to read a non-existent file, by creating an empty buffer and displaying a "(New File)" warning message.

Fix information:
Will not fix.

KPR #: 4000033381 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Left locator button clicks above browser items beep; clicks below don't.

Problem:

Left locator button clicks above browser items beep; clicks below don't.
Detailed instructions for duplicating problem:

Left locator clicks which attempt to move the browser current item highlight above the pickable browser areas cause the top line to be highlighted and beep. Clicks below the pickable browser area high-

- COMMON LISP DEVELOPMENT -

KPR #: 4000033381 **CONTINUED**

light the bottom line but do not beep. A second click in either case does not browse but continues to beep or not beep. This is not consistent.

Fix information:
Will not fix.

KPR #: 4000033399 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Command line of editing buffer sometimes erroneously shows C-M-L.

Problem:
Command line of editing buffer sometimes erroneously shows C-M-L. Detailed instructions for duplicating problem:
In an Editing buffer, sometimes the promptline contains C-M-L to Quit when C-M-L results in a no previous location message. This can be caused by directly browsing a series of buffers then deleting one of the previously browsed buffers.

Fix information:
Will not fix.

KPR #: 4000033407 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
It's not possible to customize (bind keys to commands) all keyboard keys

Problem:
It is not possible to customize (bind keys to commands) all keyboard keys, since shifted numberpad alpha keys have same key code as main keyboard keys.
Detailed instructions for duplicating problem:
When running Nmode in a HPWindows/9000 fastalpha graphics window, the following applies:

Keys in the numberpad region of the ITF keyboard can be divided into 2 groups:
1. the 4 unlabeled function keys plus Enter and Tab
2. all the others

Keys in group 2 (above) exhibit this bug:

The cause of the bug is in the window product.

Fix information:
Will not fix.

KPR #: 4000033415 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Buffers can be accidentally killed if they have long filenames.

Problem:
When buffer name is > 120 characters long, Selecting NO to popup menu confirmation of KILL BUFFER will kill buffer.
Detailed instructions for duplicating problem:
Rename a buffer so name is > 120 chars. Use popup menu in buffer browser to kill it. Confirmation popup menu has title missing! Select NO item. Buffer gets deleted anyway!
Workaround:
Shorten the buffer name or use the keyboard.

Fix information:
May be corrected in a future release.

KPR #: 4000033423 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

One-line description:
With term0 window, shift left/right arrow key's not decoded

Problem:
In Term0, shift left/right arrow key's escape sequences are not decoded, causing Nmode to enter garbage into a text buffer when pressed.
Detailed instructions for duplicating problem:
Term0 sends ESC & r i l for left and ESC & r i R for right. Pressing these keys in a text buffer results in everything but the ESC being stored in the buffer.

Fix information:
Will not fix

KPR #: 4000033431 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Undocumented behavior with cmd-argument to C-X O.

Problem:
Undocumented behavior with cmd-argument to C-X O.
The command argument selects the next pane in sequence and displays in it the same buffer that is displayed in the pane just left, independent of the sign or magnitude of the command argument given.

Fix information:
Will not fix.

KPR #: 4000033449 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:

Command functions do not follow M-X conventions.

Problem:

There are many command functions in the system which do not follow the convention of -command at the end and match the M-X command name.

Fix information:

Will not fix.

KPR #: 4000033456 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Lisp specific commands do not completely parse all CL syntaxes.

Problem:

The Lisp specific commands (eg move-forward-form, kill-next-form, indentation) don't completely parse all Common Lisp syntaxes, eg. all reader macros and reader syntax for arrays, etc. For example, parenthesis matching in Lisp Mode isn't smart enough to know about all the Common Lisp escapes.

Detailed instructions for duplicating problem:

The escape characters that NMODE doesn't consider when matching parens are "|" and the combination of "#|" and "|#". For instance, on the line

((foo)| x)

the right paren in the symbol foo) gets matched with the opening left paren.

Similarly, in

(foo #| This is a comment) |# x)

the right paren in the comment gets matched with the opening left paren.

These escape characters also need to be considered in other NMODE commands, such as the ones for killing forms.

Fix information:

May be corrected in a future release.

KPR #: 4000033464 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

M-) command isn't consistent with indentation done by other commands.

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KPR #: 4000033464 **CONTINUED**

Problem:

M-) command isn't consistent with indentation done by other commands. Detailed instructions for duplicating problem:

The M-) command works weird. It's very useful for breaking up long one-liners (like macroexpansions, etc.), but ... For example, if you M-) this line repeatedly,

(let ((a b) (c d)) (cond (((a) b) ((c) d) (t e))))

..you get...

(let ((a b)
(c d)

) (cond (((a)

b)

)((c)

d)

(t e)

))

)

Fix information:

Will not fix.

KPR #: 4000033472 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

White space at the end of a sentence is treated as another sentence.

Problem:

Forward sentence will treat trailing white space at the end of paragraph as a sentence.

Fix information:

Will not fix.

KPR #: 4000033480 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

In auto fill, + text modes Nmode doesn't keep left margin in view.

Problem:

In auto fill, text modes, Nmode doesn't try to keep left margin in view.

Detailed instructions for duplicating problem:

If I'm in text mode, auto fill, and I have a long word at the end of a line which forces the left margin out of view, auto fill will force the word onto the next line. The problem is, as long as point is visible, the window will not be rescaled to show the left margin.

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KPR #: 4000033480 **CONTINUED**

Fix information:
Will not fix.

KPR #: 4000033498 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Receiving input from more than 27 file descriptors causes error.

Problem:
Receiving input from more than 27 file descriptors causes error.
Detailed instructions for duplicating problem:

If you reconfigure your HP-UX kernel such that it supports more than 20 open file descriptors per process and increase the process per user count, you can create enough windows and HP-UX Access shell-buffers to cause Nmode's input loop to fail. It isn't capable of receiving input from a file descriptor greater than 27. The easiest way to clean up the situation is to exit and reenter Nmode or kill off any extra windows or shells.

Fix information:
Will not fix.

KPR #: 4000033506 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Hitting [Break] while creating nmode shells causes loss of shell access.

Problem:
Hitting the [Break] key while creating Nmode shells cause loss of all future access to that shell during the current Nmode session.
Detailed instructions for duplicating problem:

If you hit the BREAK key while creating shells, in the most likely case it will just cause lack of access to that shell and may leave an extra (empty) buffer lying around. Because it cannot deallocate the broken resource, it also means you will have one less shell available for use (your total limit decreases).

Fix information:
Will not fix.

KPR #: 4000033514 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
HP-UX command softkey is confusing and may cause garbage.

Problem:
HP-UX Command softkey is confusing and may cause garbage screen when used in terminal mode or without HPWindows/9000 when the HP-UX Access

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KPR #: 4000033514 **CONTINUED**

Facility has not been loaded.

Detailed instructions for duplicating problem:

After invoking Nmode as "nmode -t hp" or invoking it without HPWindows/9000, and without loading the HP-UX Access facility, hit HP-UX Command softkey. Answer the prompt with "date" RETURN.

HP-UX executes date, and sends the results to stdout which in the window case is the term0 window and the other case is wherever the cursor was on the screen before Nmode was invoked. The output is sometimes difficult to read (it disappears with the next screen refresh) and sometimes creates a messy screen until the next refresh. Workaround:

When using Nmode without HPWindows/9000 or as a terminal, load the HP-UX Access facility first. Output will then be integrated into the appropriate Nmode buffer.

Fix information:
Will not fix.

KPR #: 4000033522 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
C-M-Return doesn't work in the middle of a shell-buffer.

Problem:

C-M-Return (HP-UX Execute and Delete Command) doesn't work in the middle of a shell-buffer, only at the bottom.

Detailed instructions for duplicating problem:

The key sequence C-M-Return, the HP-UX Execute and Delete command, will only work if you are typing on the last line of a shell-buffer. If used elsewhere, it may delete your last line if you have specified use of the prompt-end-character option.

Fix information:
Will not fix.

KPR #: 4000033530 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Shell buffers are not correctly named according to options.

Problem:

In the HP-UX Options browser: if you specify an existing buffer for the shell-buffer name option, creating a shell-buffer will make a new buffer based on the system's default name for shell-buffers (HP-UX.SHELL) instead of based on the name you specified.

Detailed instructions for duplicating problem:

Currently, if you specify a name of a buffer that already exists, the algorithm will use the default name (HP-UX.SHELL) as a base to determining the name of the new buffer to create. It should instead use the name you specify at least as the base name of the new buffer. For example, if you specify "SHELL" for the name and a buffer named

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KPR #: 4000033530 **CONTINUED**

SHELL already exists, it should create a new shell-buffer named SHELL-1 and not HP-UX.shell-?.

Workaround:

Always specify a buffer that doesn't already exist, or use the default name, or use M-X Create Shell-Buffer which allows you to specify the name.

Fix information:
Will not fix.

KPR #: 4000033548 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Keyboard and locator inputs not always processed in order entered.

Problem:

Keyboard and locator inputs not always processed in order entered. Detailed instructions for duplicating problem:
When keyboard and locator (mouse) inputs are both queued up, the inputs may not be processed by the system in the same order that they were entered. This is because the keyboard queue is emptied before the locator queue is read.

Fix information:
Will not fix.

KPR #: 4000033555 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Locator buttons may be missed during switching of windows.

Problem:

Locator buttons may be missed during switching of windows. Detailed instructions for duplicating problem:
If you do the following sequence as fast as possible, nmode misses the right button click:

select a different nmode window
bring up the windows/9000 menu (left button on desktop)
abort it

try and bring up the nmode menu

The button is only missed if pressed during the window switch.

Workaround:

Don't give commands while the windowing system is switching windows.

Fix information:
Will not fix.

KPR #: 4000033563 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Mouse clicks can cause keystrokes to be ignored.

Problem:

In rare cases, mouse clicks occurring simultaneously with keystrokes will cause the keystrokes to be ignored.

Detailed instructions for duplicating problem:

If you have more than one Nmode window and try to do something like select the hidden window, then sometimes your subsequent keystrokes have no effect and other times (eg. when typing into a buffer) they will be processed but also force the hidden window to the top.

If you attempt to select a window at approximately the same time you hit a key on the keyboard with all of the following true:

- the mouse selection signal is actually "heard" before the key stroke
 - you do this at "precisely" the right moment (at a time that the input path cannot detect it)
- you can manage to get Nmode in a state whereby it is waiting for input from the "wrong" window (the fact that you have selected the other window has not yet been recognized).

This behavior is due to the single process nature of Nmode, and that signal events (the action as opposed to the recognition) are queued for processing in a synchronous manner. There exist critical sections in the input path, during which a signal could occur, that will not be processed immediately, causing Nmode to believe it is reading from the wrong device. The requirements necessary to produce such behavior occur within a very narrow window of time and are extremely hard to reproduce.

Checks have been added wherever possible.

Workaround:

If you get into such a situation you can just hit another mouse click to recover. Your data will not be lost.

Fix information:
Will not fix.

KPR #: 4000033571 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Changing C block begin/end chars in C Edit Options breaks C-M-F/B.

Problem:

Changing C block begin/end chars in C Edit Options breaks C-M-F/B. Detailed instructions for duplicating problem:
In C Edit Options, changing the block begin/end characters causes M-X Move Forward/Backward Block (C-M-F, C-M-B) to not match the new character strings.

Fix information:

KPR #: 4000033571 **CONTINUED**

Will not fix.

KPR #: 4000033589 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Template placeholders can be lost during template edit when CR inserted.

Problem:
Template placeholders can be lost during template edit when CR inserted.
Detailed instructions for duplicating problem:
While filling in a template in C, Pascal or Fortran mode, inserting a CR before a template in the same line causes the system to lose track of the remaining placeholders in the template. A good example is the C Case Template. While positioned on the first placeholder, insert a CR, and subsequent placeholders will be ignored.

Fix information:
May be corrected in a future release.

KPR #: 4000033597 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
BREAK key typed during load of tutor disables Load command for tutorial.

Problem:
BREAK key typed during load of tutor disables Load command for tutorial.
Detailed instructions for duplicating problem:
If the break key is typed during loading of the NMODE tutorials, further loading attempts of the tutorial will be ignored. When an attempt is made, a warning is displayed in the output buffer.
Workaround:
The current work around is to continue loading via the Lisp-C command instead of quitting from the break loop(s). If beyond this point, Nmode must be brought down and brought back up in order to load the tutorial.

Fix information:
Will not fix.

KPR #: 4000033605 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
The Restore key in the NMODE tutorial does not restore all situations.

Problem:
The Restore key in the NMODE tutorial does not restore all situations.

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KPR #: 4000033605 **CONTINUED**

Detailed instructions for duplicating problem:
If the View One Pane command is give while in the NMODE tutorials, the two pane configuration of the tutorial cannot be restored. Also, the NMODE tutorial does not allow a recursive call to itself.

Workaround:

Leave the tutorial via the f8 command, then return to the tutorial, or use the f4 softkey to return to the Tutor browser.

Fix information:
Will not fix.

KPR #: 4000033613 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Where-Am-I for Directories specifies "directories" instead of files.

Problem:
Where-Am-I documentation for Directories specifies "directories" where "files" should be specified.
Detailed instructions for duplicating problem:
Get into a directory browser. Do a Help Where-Am-I. Look at the command list under Utility. Notice that for Move, Copy and Rename the explanation speaks of directories rather than files. Should be only files or both files and directories.

Fix information:
May be corrected in a future release.

KPR #: 4000033621 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Help Where-I-Am lists a non-existent function.

Problem:
Help Where-Am-I for Error index has an error under Options: it lists a non-existent function.
Detailed instructions for duplicating problem:
Get into an error index. Do a Help Where-Am-I. Look down in the command list under Options. You will see that it lists a Lisp sub command. This command does not exist.

Fix information:
May be corrected in a future release.

KPR #: 4000033639 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Tutorial keys are changed if a breakloop entered while in the tutorial.

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KPR #: 4000033639 **CONTINUED**

Problem:
Tutorial keys are changed if a breakloop entered while in the tutorial.
Detailed instructions for duplicating problem:
When a break loop is entered, the four right tutorial keys are overwritten with no way to restore them.

Workaround:
Work around for this problem is to execute the command "M-X Leave Tutor Module" or press the List Tutors softkey to return to the Tutorial browser. The keys will be replaced.

Fix information:
Will not fix.

KPR #: 4000033647 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Evaluating a form in customize tutorial will overwrite the instructions.

Problem:
Evaluating a form in customize tutorial will overwrite the instructions.

Detailed instructions for duplicating problem:

Evaluating a form in Customize tutorial will bring up the output buffer over the tutorial instruction text.

Workaround:

The problem is that the any output will overwrite the instruction text. The workaround for this problem is to use C-X C-E command to evaluate the needed forms instead of evaluating the forms in the .nmoderc file. If the user is passed this point already, and the output has already overwritten the instructions, use the command C-X O to go to the instruction pane and execute C-M-L to remove the output buffer. Then return to the practice area (C-X O).

Fix information:
Will not fix.

KPR #: 4000033654 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Online help for C-J L does not describe fully what the command does.

Problem:
Online help documentation for C-J L does not describe fully what the command does.

Detailed instructions for duplicating problem:

Look at the description of the C-J L command. The command is M-X Exit To Lisp.

Workaround:

In reality Nmode retains its state and you can come back right to where you left off. Think of this command as an "Exit to Lisp

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KPR #: 4000033654 **CONTINUED**

Listener".

Fix information:
Will not fix.

KPR #: 4000033652 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Documentation of Defuns in any of the online-help info needs further desc

Problem:

The documentation of Defuns in any of the online-help information needs further description.

Detailed instructions for duplicating problem:

The on line documentation for Lisp-D is incorrect. It states that the current defun is executed when in reality it is only the current top level form (ie. open paren in col. one) that is executed.

The documentation as well as some of the functionality of NMODE (e.g. code browsers for lisp source files) considers top level functions as forms that starts in column 1.

Fix information:
Will not fix.

KPR #: 4000033670 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Help frame on Upcase-digit needs description of effective range.

Problem:

Help frame on Upcase-digit needs description of effective range.

Detailed instructions for duplicating problem:

Upcase-digit-command works only if at least one digit is found from the start of last line to the point.

Fix information:
Will not fix.

KPR #: 4000033688 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Softkeys can not be used with prefixed commands.

Problem:

Softkeys can not be used with prefixed commands eg C-X, M-X, Help

Detailed instructions for duplicating problem:

Bring up nkeys.

Hit the HELP softkey key. That works great. You see the Help menu.

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KPR #: 4000033688 **CONTINUED**

Hit the HELP softkey again. The result is an Undefined command.

Fix information:
Will not fix.

KPR #: 4000033696 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Nmode -t Create window softkey exists even if window support does not.

Problem:

nmode -t Create Window softkey exists even if window support is not available (e.g. from a terminal).

Fix information:

May be corrected in a future release.

KPR #: 4000033704 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Softkeys for original window are reset.

Problem:

The softkeys for the original window that nmode starts from are reset.

Detailed instructions for duplicating problem:

Define softkeys while in a window. Startup nmode. Stop nmode. The softkeys in the window where the nmode command was entered have been reprogrammed to produce ESC \ n where n is a digit corresponding to the key.

Fix information:

Will not fix.

KPR #: 4000033712 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Windows in input mode cannot be killed with popup menu.

Problem:

Window is not killed when using HPWindows/9000 popup to kill, and window is in input mode.

Workaround:

When this occurs, use the Kill Window M-X command to kill the window. The HPWindows/9000 popup menu will indicate that the window has already been killed so it cannot be killed again with the popup.

Fix information:

May be corrected in a future release.

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KPR #: 4000033720 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Lisp L gets errors when run from background.

Problem:

Lisp L gets errors when run from background.

Temporary solution:

Do not run NMODE from the background.

Fix information:

Will not fix

KPR #: 4000033902 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

Package objects are accessible as normal vectors or arrays.

Problem:

package objects are accessible as normal vectors or arrays
Detailed instructions for duplicating problem:

(in-package 'abc)

(aref 'abc 0)

returns a value, not an error

Fix information:

Will not fix.

KPR #: 4000033910 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

Lamdas whose compiled code exceeds 32K bytes will not work.

Problem:

Lamdas whose compiled code exceeds 32K bytes will not work.

Detailed instructions for duplicating problem:

Create a very large lambda and try to compile it.

Workaround:

Keep object code size less than 32K by breaking functions into pieces.

Fix information:

May be corrected in a future release.

- COMMON LISP DEVELOPMENT -

KPR #: 4000033928 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: LISP

One-line description:
READ-CHAR-NO-HANG does not work with device files.

Problem:
READ-CHAR-NO-HANG does not work with device files.
Detailed instructions for duplicating problem:
If you open a stream to a device file and then try to do a
READ-CHAR-NO-HANG, it will hang if there is no data available.
Workaround:
Make the call to READ-CHAR-NO-HANG conditional upon a non-NIL value
returned by a call to LISTEN to the stream.

Fix information:
Will not fix.

KPR #: 4000033936 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
Bare CL always prints system prompt even when user code doing READ.

Problem:
Bare CL always prints system prompt even when user code doing READ
Detailed instructions for duplicating problem:
Bring up CL, not NMODE.
Write and execute a function which contains a READ. The standard
prompt string will appear.

Fix information:
Will not fix.

KPR #: 4000033944 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Load of binary file with other than .b suffix gives unintelligible error

Problem:
Load of binary file with other than .b suffix gives unintelligible
error.
Detailed instructions for duplicating problem:
Assume that a file named example.l in the default directory contains
Common LISP source.
(compile-file "example.l" :output-file "code.example")
(load "code.example")
gives an error instead of loading the file.
Workaround:
If no :output-file option is given, compile-file will create a .b
file.

Fix information:

- COMMON LISP DEVELOPMENT -

KPR #: 4000033944 **CONTINUED**

May be corrected in a future release.

KPR #: 4000033951 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
System not observing restriction of call-arguments-limit (p108 CLtL)
Problem:
System not observing restriction of call-arguments-limit (p108 CLtL)
Call-arguments-limit is 254.
(vector 1 2 3 4 ... 299 300) will return a simple-vector of 300
elements, will not give an error.

Fix information:
Will not fix.

KPR #: 4000033969 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Save-world doesn't unwind bindings, save break state, update open files.

Problem:
Save-world does not unwind bindings or save break state or update
open files
Detailed instructions for duplicating problem:
While paused in a break loop, do a save-world. Later, from HP-UX,
execute the file named in the save-world. The state will not be
exactly what it was before the save-world, and some data written to
files oaf will be lost.
Whenever possible, close all open files, exit break loops, and
return to the top level before executing save-world.

Fix information:
Will not be fixed.

KPR #: 4000033977 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
Disassemble output is not compatible with either LAP or UNIX assembler.

Problem:
Disassembled output is not compatible with either LAP or UNIX
assembler.

Fix information:
Will not fix.

- COMMON LISP DEVELOPMENT -

KPR #: 4000033985 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: LISP

One-line description:

pp-expand does not preserve SPECIAL declarations in locally (and let).

Problem:

pp-expand does not preserve SPECIAL declarations in locally (and let).

Detailed instructions for duplicating problem:

(pprint (extn:pp-expand (let (a) (locally (declare (special a))) (foo a))

))

returns (LET ((A NIL)) (LET () NIL) (FOO A)) where the A after FOO is not special.

pp-expand does not preserve ANY declarations except SPECIAL, and those only when there are specially bound variables.

In fact, its method is only heuristic: it may print special declarations when none were originally given!

Workaround:

Use speed 0 where necessary to avoid preprocessor optimizations.

Fix information:

May be corrected in a future revision.

KPR #: 4000033993 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: LISP

One-line description:

Bothtime functions (e.g. proclaim, in-package) take only constant args.

Problem:

bothtime functions (e.g. proclaim, in-package) take only constant args

Detailed instructions for duplicating problem:

When functions such as PROCLAIM or IN-PACKAGE occur as top-level forms in a compile-file, they are eval'ed at compile time.

This is necessary in most cases in order to either get correct semantics (as with IN-PACKAGE or PROCLAIM SPECIAL) or to derive the benefits (as with PROCLAIM optimizations).

However, since these functions evaluate their arguments, if the arguments are not constants, they may not evaluate correctly at compile time.

E.g. (PROCLAIM X) ==> Error: The symbol X has no value.

Fix information:

Will not fix.

KPR #: 4000034009 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:

File names containing '\$' are not handled correctly.

KPR #: 4000034009 **CONTINUED**

Problem:

File names containing '\$' are not handled correctly

Detailed instructions for duplicating problem:

1. Attempting a C-X C-F command and specifying a file that begins with a \$ (I used \$test) causes the system to display the message: File <directory>/\$test is a directory; use a command argument to force a read. When I used a command argument the system brought up a buffer that had garbage in it.

2. Attempting a C-X C-F on an existing file named test\$test nmode put the system into a new buffer that it said contained a new file.

3. I created a file with the name "\$(CC) \$(CFLAGS)". When I subsequently tried to do a C-X C-F on the file and typed in \$(CC) and a space to do file completion the system erased all that I typed and replaced it with "\$HOME/". Also when I try to execute the form

(-> (make-nmode-file-name "\$(CC) \$(CFLAGS)") :true-namestring)

The system gets a lisp error:

An attempt was made to use '-12' as an index in IMPL:SUBSEQ

Condition signalled in NMODE::TRUEST-NAMESTRING

To create these files with \$ in the name. I did the following from csh:

```
vi $test
<entered text and quit file saving changes>
cp $test 'test$test'
cp $test '$(CC) $(CFLAGS)'
```

forward-info Forward to lisp.kernel:

Since (truenamestring "foo\$fee") evals to defaultdir/foo when \$fee cannot be expanded, there is no way for the nmode user to specify a filename which contains a "\$".

Fix information:

May be corrected in a future release.

KPR #: 4000034017 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: LISP

One-line description:

(defun nil {} nil) works interpretively, not compiled.

Problem:

(defun nil () nil) works interpretively, not compiled

Detailed instructions for duplicating problem:

```
(defun nil () nil)
(nil)
```

works interpretively. You can't (compile 'nil) due to the definition of compile. If you put the defun in a file, compile it, and load it the system will reset whenever you call (nil). It goes back to the beginning of top-loop as near as I can tell. The banner is reprinted and the listener sequence numbers get reset to nil. In trying to debug this I found that our system can't handle a function

KPR #: 4000034017 **CONTINUED**

named nil. #nil (symbol-function 'nil) (disassemble 'nil) ...
all give errors.

Fix information:
Will not fix.

KPR #: 4000034025 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
Preprocessor does not handle &key and &rest in the wrong order

Problem:
Preprocessor doesn't gracefully handle &key and &rest in wrong order.

Detailed instructions for duplicating problem:
(defun bar (&key b &rest c)
c)

(bar :b 3)

(defun bum ()
((lambda (&rest c &key b) c) :b 3))

(defun bum ()
((lambda (&key b &rest c) c) :b 3))

; (Two bugs demonstrated:)

; ;
; call to BAR complains of too many arguments passed
; 1st definition of bum works fine
; 2nd definition of bum blows away preprocessor with some strange
; error

Fix information:
Will not fix.

KPR #: 4000034033 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
Sys:*break-level-limit* & Sys:*break-limit-exceed-limit* can work incorr.

Problem:
The variables system:*break-level-limit* and
system:*break-limit-exceed-limit* do not work right when you set
them to a non-integer value.
Detailed instructions for duplicating problem:
(setq system:*break-level-limit* 5.0)
Then evaluate (/ 1 0) more than 5 times. Instead of printing a
warning and exiting to the error handler, the system ignores the
limit and goes deeper and deeper into breaks.

- COMMON LISP DEVELOPMENT -

KPR #: 4000034033 **CONTINUED**

Fix information:
Will not fix.

KPR #: 4000034041 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
Preprocessor error from an eval shows as eval on stack; not the pp fn!

Problem:

Preprocessor error from an eval shows as eval on stack; not the
pp fn!

Detailed instructions for duplicating problem:
Doing a (setq a b c) causes a preprocessor error signalled in a
preprocessor function. Doing a backtrace shows this function on
the stack. Wrapping an eval around this also causes the break, ie,
(eval '(setq a b c)), but the backtrace shows only eval on the
stack. It should also show the pp function.

Fix information:
May be corrected in a future release.

KPR #: 4000034058 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Attempt to trace method on undefined type gives meaningless warnings.

Problem:

Attempt to trace method on undefined type gives extraneous
meaningless warnings.

Detailed instructions for duplicating problem:
Evaluate (trace (:method horse :color)) when horse is not a defined
instance type. This gives the following four warning messages, only
the first of which is meaningful, the rest should be ignored:

!!! Warning: (:METHOD HORSE :COLOR) method specifier ignored in
TRACE. HORSE is not a defined instance type.

!!! Warning: unrecognized option :METHOD--option ignored.

!!! Warning: unrecognized option HORSE--option ignored.

!!! Warning: unrecognized option :COLOR--option ignored.

Fix information:

May be corrected in a future release.

KPR #: 4000034066 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
(... &key) causes spurious compiler warning.

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KPR #: 4000034066 **CONTINUED**

Problem:
 (...) causes spurious compiler warning
 Detailed instructions for duplicating problem:
 (defun foo (&key)
 ...)
 (compile 'foo)

Will give warning message that the variable PREPROCESSOR::
 KEYARGS is unnecessary.

Fix information:
 May be corrected in a future release.

KPR #: 4000034074 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
 Outer eval-when specs don't control inner ones.

Problem:
 Outer eval-when specs don't control inner ones.
 Detailed instructions for duplicating problem:
 (eval-when (load)
 (defmacro foo (
 ...
))

Will define foo at eval and compile times, too. This is because
 defmacro will expand into an '(eval-when (eval compile load) ...)'
 and nested eval-whens are not handled correctly.

Fix information:
 Will not fix.

KPR #: 4000034082 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
 DIRECTORY pathname can't read LAN root directory.

Problem:
 (DIRECTORY pathname) where pathname specifies another system on the
 same Local Area Net can't read the root directory!

Fix information:
 May be corrected in a future release.

KPR #: 4000034090 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
 Documentation discrepancy on listener-abort/quit/-continue.

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KPR #: 4000034090 **CONTINUED**

Problem:
 Documentation discrepancy on listener-abort/-quit/-continue.
 Detailed instructions for duplicating problem:
 According to documentation, any listener invoked with the parameter
 top-level? true will catch a listener-abort. Listener-abort, in
 fact, always throws all the way out to lisp-top-level-loop.

Fix information:
 Will not fix.

KPR #: 4000034108 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
 After !step, XM starts afresh on each new form, losing history.

Problem:
 After !step, XM starts afresh on each new form, losing history.
 Detailed instructions for duplicating problem:
 Example:
 (defun foo (
 (let ((x 3))
 (break)
 (+ x x)
 (let ((y 4))
 (values x y))))

Evaluating (foo), and then !step from break, the stepper properly
 steps the form (+ x x). Then, however, when it starts with the
 inner let, XM makes it the new top level form, and discards the
 history information about (+ x x).

Fix information:
 Will not fix.

KPR #: 4000034116 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:
 Misleading error message in stepper when aborting the computation.

Problem:
 Misleading error message in stepper when aborting the computation.
 Detailed instructions for duplicating problem:
 When in the stepper, and you elect to abort the computation, the
 prompt window has the message "... abort the computation and exit
 the browser? default yes..." BUT the new behavior of the stepper is
 NOT to exit the browser (the expected behavior, anyway...), so the
 message is misleading.

Fix information:
 Will not fix.

- COMMON LISP DEVELOPMENT -

KPR #: 4000034124 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:
Exec Monitor mismaps the i and v keys.

Problem:
Exec Monitor mismaps the i and v keys.
Detailed instructions for duplicating problem:
Run nmode -t hp on term0
Browse Additional Facilities, Execution Monitor
Do meta-slash on "i"
Do meta-slash on "v"
At least one of these is a bug. :-)
When I did it, one was unmapped & one was mapped to BELL which was not defined. At least one of these characters was the abbreviation for one of the commands in the "alphabet soup" line at the bottom.

Fix information:
Will not fix.

KPR #: 4000034132 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:
When EXMON is active, Lisp-a from 2nd window pops up EXMon in 2nd window

Problem:
When EXMon is active, Lisp-a from 2nd window pops up EXMon in 2nd window.

Fix information:
Will not fix.

KPR #: 4000034140 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:
Stack overflow makes nmode window the bottom window.

Problem:
Stack overflow makes nmode window the bottom window
Detailed instructions for duplicating problem:
From nmode in a window, I typed in and evaluated the following function:
(defun f (n)
 (f 0)
)

It eventually got a stack overflow error. It seems that when the stack overflow occurs, the window is made the bottom window.

Fix information:
Will not fix.

- COMMON LISP DEVELOPMENT -

KPR #: 4000034157 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: LISP

One-line description:
PP does not check declare name for symbolp; causes error in printing.

Problem:
PP does not check declare name for symbolp; causes error in printing.
Detailed instructions for duplicating problem:
Example:
(defun foo ()
 (declare (extn:name (foo)))
 'foo)
#'foo

This sequence results in

!!!! Error: Argument (FOO) to IMPL:SYMBOL-PACKAGE is not a symbol.
Condition signalled in: IMPL:SYMBOL-PACKAGE.

when the printer tries to print the fundef's lambda name.

Fix information:
Will not fix.

KPR #: 4000034165 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:
Exec. Monitor does not allow changing the number of function return val.

Problem:
Execution Monitor allows the changing of individual return values from a function, but not the number of return values.
Detailed instructions for duplicating problem:
Create the function two-values: (defun two-values () (values 1 2 3)), then evaluate (step (two-values)). In the Execution Monitor, single step until getting the line
| (TWO-VALUES) = 1 2 3
Then type V V, for V(iew) V(values-and-args). By positioning on one of the value lines, using V S it is possible to change the 2 to a 5, for example, but it is not possible to make the function return exactly 2 values.

Fix information:
Will not fix.

KPR #: 4000034173 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:
Error in on-line help text for Exec. Mon.

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KPR #: 4000034173 **CONTINUED**

Problem:

Error in on-line help text for Exec. Mon.

Detailed instructions for duplicating problem:

The on-line help text for the Execution Monitor says if there are more than 3 return values from a form that the fourth and succeeding forms are replaced by the string "Etc.". They are actually replaced by the string "...". The actual behavior is preferable, the help-text should be changed.

Fix information:

Will not fix.

KPR #: 4000034181 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Meaningless warning msg from Execution Monitor.

Problem:

When entering the Monitoring Options browser of the Execution Monitor, it gives a meaningless warning message that there are 'No options in group "rare".'

Detailed instructions for duplicating problem:

From the Execution Monitor type "ON" to invoke the monitoring options browser. The warning message will be displayed at the bottom of the screen.

Fix information:

Will not fix.

KPR #: 4000034199 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Additional facilities prints incorrect message when loading xs browser.

Problem:

Additional facilities prints incorrect message when loading xs browser.

Detailed instructions for duplicating problem:

Upon loading the execution monitor the execution monitor was marked with an "L", but the execution stack was not. I then browsed into the execution stack. A message was displayed asking if I would like to load the facility. I hit return for "yes" and a message was displayed saying that I had already loaded the facility. An "L" was then displayed next to the facility name.

Fix information:

Will not fix.

- COMMON LISP DEVELOPMENT -

KPR #: 4000034207 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Execution Monitor signals error that a form is not an identifier.

Problem:

Execution Monitor signals error that a form is not an identifier.

Detailed instructions for duplicating problem:

When positioned on the line which says "Monitored form: ...", type V C (for View Code), and the following error is signalled:

```
!!!! Error: An attempt was made to do IMPL:ID2STRING on
(:MONITORED-FORM ...) which is not an identifier.
```

Error message is erroneous and misleading. No error should be signalled, the Execution Monitor should merely point out that there is no browsable code represented by this form.

Fix information:

Will not fix.

KPR #: 4000034215 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Restoring default Breakpoints in XM options browser bad warn message.

Problem:

Restoring default Breakpoints in XM Options browser gives bad warn message.

Detailed instructions for duplicating problem:

Typing R, for restore-default, when on Breakpoints line in Execution Monitor. Monitoring Options browser gives warning message that an internal XM variable (DEBUG::*PS-STOP-FNS*) is ignored in breakpoint specification because it has no function definition.

Fix information:

Will not fix.

KPR #: 4000034223 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

Execution Monitor reqs symbol to have function definition to set brkpt.

Problem:

Execution Monitor requires that a symbol have a function definition to set a Breakpoint on it.

Detailed instructions for duplicating problem:

I cannot set a breakpoint on an undefined function in the Execution Monitor, even though I know it is going to be defined and and invoked later in my stepping. This is because the Execution Monitor requires a valid function definition before it will add an element

- COMMON LISP DEVELOPMENT -

KPR #: 4000034223 **CONTINUED**

to the breakpoints list. For the same reason it is not possible to break on a named closure.

Workaround:

For ordinary functions, create a temporary function definition and let it be redefined by program execution. If, however, correct operation of the program requires the function be undefined, there is no work-around. There is also no workaround for the case of a named closure.

Fix information:
Will not fix.

KPR #: 4000034231 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

When XM not loaded, (step <form>) EVALS <form>, then says step undefined

Problem:

When XM not loaded, (step <form>) EVALS <form>, then says step undefined.

Fix information:
Will not fix.

KPR #: 4000034249 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

Fletting a constant folded function gives wrong results.

Problem:

Fletting a constant folded function gives wrong results
Detailed instructions for duplicating problem:
(proclaim '(optimize (speed 2))) ; to get constant folding
(flet ((car (x) (cdr x)))
 (cdr (x) (car x)))
 (cdr (car '(1 2 3))))

Will give an error message, because CAR and CDR are constant folded at speed 2, and this constant folding is not overridden by the flet definitions.

Fix information:
May be corrected in a future release.

KPR #: 4000034256 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

Function reported in "Condition signalled in ..." msg not consistent.

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KPR #: 4000034256 **CONTINUED**

Problem:

Function reported in "Condition signalled in ..." msg not consistent
Detailed instructions for duplicating problem:
Interpretively define a function foo which calls BREAK. Step foo.
The break message will say that the condition was signalled from APPLH00K rather than from foo.

Fix information:
Will not fix.

KPR #: 4000034264 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

XM pauses at evaluation of closed var in function call.

Problem:

XM pauses at evaluation of closed var in function call.
Detailed instructions for duplicating problem:
For most function calls where the arguments are all variable evaluations, the stepper first shows the call "as written", then on the next step, it evaluates and displays all argument values and redisplay the calling form with the actual values substituted in the form. If, however, any of the variable arguments is closed, the stepper stops before evaluating it, and then forces the user to hit the S key once to see the value and a second time to continue evaluating the remaining arguments. Other closed arguments in the list will make similar stops. If remaining arguments are simple local or special variables, though, the evaluation will proceed for all of them as it should.

Fix information:
Will not fix.

KPR #: 4000034272 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

Execution Monitor limits maximum indentation to 50.

Problem:

Execution Monitor limits maximum indentation to 50. Any limit, even no limit, should be OK.
Detailed instructions for duplicating problem:
Enter the Monitoring options browser and try to set the maximum display indentation to a number greater than 50.

Fix information:
Will not fix.

- COMMON LISP DEVELOPMENT -

KPR #: 4000034280 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:

In xm, quit acts like an inefficient run (changes modes, run does not).

Problem:

In xm, quit acts like an inefficient run (changes modes, run does not).

Fix information:

Will not fix.

KPR #: 4000034298 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: LISP

One-line description:

Can't redefine interpreted fn just before call in XM.

Problem:

Can't redefine interpreted fn just before call in XM.

Detailed instructions for duplicating problem:

When stepping a function call the Execution Monitor "stops" at two different times on forms representing the call. The first time it reconstructs the "source" of the call, complete with the forms which will be evaluated to produce the arguments to the function. The second time, it shows the actual argument values in a list with the function name that is about to be invoked. One would expect that if the function about to be called were redefined at the second suspension point, that the new definition would be invoked. In fact, if the function about to be called is compiled at the time the second suspension point is reached, the new definition does take effect. If, however, the function about to be called is interpreted when the second suspension point is reached, the new definition does NOT take effect. In the compiled case, if the new definition is interpreted, it also has the unfortunate side effect of showing the call twice.

Fix information:

Will not fix.

KPR #: 4000034306 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:

Stepper resets debug::*step-size* when preferred value is set.

Problem:

Stepper resets debug::*step-size* when I have my preferred value set Detailed instructions for duplicating problem:
Whenever quit or abort are used to exit the stepper *step-size* is set to nil. When the next step form is evaluated it is then reset to all evaluations.

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KPR #: 4000034306 **CONTINUED**

Fix information:

May be corrected in a future release.

KPR #: 4000034314 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:

Stepper does not gracefully accept bad input when in input mode.

Problem:

Stepper does not gracefully accept bad input when in input mode. Detailed instructions for duplicating problem:
In the stepper, when I want to walk or run thru a computation, I am prompted for a function to break at. If I input a series of blanks, the system goes into a break loop and I get "unexpected end-of-file encountered. Condition signalled in lisp::read-preserving-whitespace-aux."

Fix information:

Will not fix.

KPR #: 4000034322 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:

XM signals non-continuable error if call an undefined function.

Problem:

XM signals non-continuable error if call an undefined function.

Fix information:

Will not fix.

KPR #: 4000034330 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:

V(value) cmd on env item in stack br signals error--should ignore instead

Problem:

V(value) cmd on env item in stack br signals error--should ignore instead.

Fix information:

Will not fix.

KPR #: 4000034348 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: NMODE

One-line description:

Compile-file creates .b with wrong permissions (should use umask).

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KPR #: 4000034348 **CONTINUED**

Problem:
Compile-file creates .b with wrong permissions (should use umask).
Detailed instructions for duplicating problem:
Files created by compile-file seem to be created with permission 555 regardless of the umask.
Workaround:
Change permission after compilation.

Fix information:
May be corrected in a future release.

KPR #: 4000034355 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
Codegen gives "wrong number of arguments" error.

Problem:
codegen bug with optional parameters
Gives wrong number of arguments error if called compiled with one argument. Only happens when the optional has an init form which is an integer 0..255.
Detailed instructions for duplicating problem:
(defun foo (a (&optional (b 23))) (print a) (print b))
(compile 'foo)
(foo 5)

Workaround:
Compile the function at speed 3.

Fix information:
Will not fix.

KPR #: 4000034363 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
Optimization bug with (equal 3.0.0).

Problem:
Optimization bug with (equal 3.0.0)
Detailed instructions for duplicating problem:
A bug exists in one of the optimizations of EQUAL and EQL. The conditions in which it is manifest are as follows (will generate an illegal instruction trap):

- 1) Running on a Series 9000 Model 310
- 2) Compiling at speed 1
- 3) Function EQUAL or EQL used
- 4) One argument is the fixnum 0
- 5) the other argument is a non-fixnum constant

This is a fairly close approximation of the conditions causing this

- COMMON LISP DEVELOPMENT -

KPR #: 4000034363 **CONTINUED**

problem but may not be exact.
Workaround:
The workaround is to compile with some other speed than 1 for this particular function call.

Fix information:
Will not fix.

KPR #: 4000034371 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
Defmacro destructuring does not always initialize correctly.

Problem:
defmacro destructuring does not always initialize correctly.
Detailed instructions for duplicating problem:
(defmacro mac (&rest (arg)) arg)

Fix information:
Will not fix.

KPR #: 4000034389 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
Printing of floats inaccurate if number has large or small abs. value

Problem:
Printing of floats is inaccurate when the number is large or small in absolute value.
Detailed instructions for duplicating problem:
(setq x 1.0E-300) causes 1.0000000000000000E-300 to be printed.
The internal representation is correct.

Fix information:
Will not fix

KPR #: 4000034397 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:
Subtypep does not work on types created by defstruct.

Problem:
Subtypep does not work on types created by defstruct.
Detailed instructions for duplicating problem:
(defstruct a)
(defstruct b (:include a)))

(subtypep 'a 'b) should return (T T). The current subtype mechanism ignores all user defined types, including those created

- COMMON LISP DEVELOPMENT -

KPR #: 4000034397 **CONTINUED**

by defstruct.

Fix information:
Will not fix.

KPR #: 4000034405 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

User initiated read of #, syntax evaluates at read-time.

Problem:

User initiated read of #, syntax evaluates at read-time.
Detailed instructions for duplicating problem:
(read-from-string "#gromek"); where gromek is unbound
produces an error since gromek is unbound.

Fix information:

May be corrected in a future release.

KPR #: 4000034413 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

PPRINT does not work on circular structures.

Problem:

PPRINT does not work on circular structures
Detailed instructions for duplicating problem:

```
(pprint '(block fred
  (if q (mapcar #'(lambda () (return-from fred)) X)
  (return-from fred))))
```

```
(BLOCK FRED
  (IF Q
    (MAPCAR (FUNCTION (LAMBDA () (RETURN-FROM FRED))) X)
    (RETURN-FROM FRED)))
```

GOOD!

```
(pprint '#1=(block fred
  (if q (mapcar #'(lambda () (return-from fred)) X)
  (return-from fred #1#)))
)
```

```
#30=(BLOCK FRED #31=(IF Q (MAPCAR (FUNCTION (LAMBDA () (RETURN-FROM
  FRED))) X) #32=(RETURN-FROM FRED #30#)))
```

BAD!

Fix information:
Will not fix.

- COMMON LISP DEVELOPMENT -

KPR #: 4000034413 **CONTINUED**

Duplicate Service Requests: 4000034736

KPR #: 4000034421 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

Double-float-epsilon needs to be different on 881.

Problem:

Double-float-epsilon needs to be different on an 881!
Workaround:
Define and use your own constant instead of double-float-epsilon
when running on a model 320.

Fix information:

Will not fix.

KPR #: 4000034439 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

Special-form-p of multiple-value-call returns nil.

Problem:

Special-form-p of multiple-value-call returns nil.

Fix information:

Will not fix.

KPR #: 4000034447 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

Read suppress not working with escaped symbols.

Problem:

Read suppress is not working with escaped symbols
Detailed instructions for duplicating problem:
'|foo,bar| ;; evaluates OK

```
#-hp ;; shouldn't get evaluated, but blows up with
'|foo,bar| ;; Error: Comma not inside a backquote.
```

Fix information:

Will not fix.

KPR #: 4000034454 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

pprint seems to print certain forms incorrectly.

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KPR #: 4000034454 **CONTINUED**

Problem:

pprint seems to print certain forms incorrectly
Detailed instructions for duplicating problem:
(pprint '(((bbbbbbb...56 b's...bbbbbb) (define-method 4)))

prints as

```
((bbbbbbbbbbbbbb...bbbbbbbbbbbbbb))
((bbbbbbbbbbbbbb...bbbbbbbbbbbbbb) (define-method 4))
```

which just isn't right. A symbol 55 characters long won't fail.
The total length of what should be printed is 78 characters.
The symbol define-method must be there and the bbb's must be at least 2 levels down.

Fix information:
Will not fix.

KPR #: 4000034462 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: NMODE

One-line description:

y-or-n-p and yes-or-no-p should prompt.

Problem:

y-or-n-p and yes-or-no-p should prompt
Detailed instructions for duplicating problem:
The functions Y-OR-N-P and YES-OR-NO-P should prompt the user. For example: "Delete file? (Y or N)." and "Delete directory? (Yes or No)." Currently, they only tell the user what to say after the user first says something wrong. There is no way for the user to distinguish between these two cases based on the message printed.

Fix information:
Will not fix.

KPR #: 4000034538 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

One-line description:

Editing switches to PLS mode not LISP mode.

Problem:

Problem description:
Editing the file \$LISP/config/nmode.init with NMODE the system switches to "PSL" minor mode. It should be in "Lisp" minor mode.
Workaround:
M-X Lisp Mode

Fix information:
Will not fix.

- COMMON LISP DEVELOPMENT -

KPR #: 4000034710 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

Keywords: LISP

One-line description:

Format bug: ~@* directive fails inside ~{...~}.

Problem:

Format bug: ~@* directive fails inside ~{...~}

The ~@* (absolute goto) format directive does not work properly when used inside a ~{...~} (list iteration) directive. The proper function is to use the elements of the list as the argument list that the ~@* directive refers to. Instead, the ~@* continues to refer to the top level argument list. [See Steele, p. 399; pp. 403f.] The relative skip (~*) seems to work correctly inside iteration directives.

Examples:

```
(format nil "~1{~0@*~A~}" '(1 2 3)) => "(1 2 3)" Correct: "1"
```

```
(format nil "~{~2@*~A~}" '(1 2 3)) =>
```

```
!!!! Error: In call to FORMAT:  
Illegal to go to non-existent argument  
~~{~2@*~A~}
```

Condition signalled in: FORMAT.

Correct: "3"

```
(format nil "~{~*~A~}" '(1 2 3 4)) => "24" O.K.
```

```
(format nil "~1{~2*~A~0@*~A~}" '(1 2 3 4)) => "3 (1 2 3 4)"
```

Correct: "3 1"

Fix information:
Will not fix.

KPR #: 4000034744 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

Keywords: LISP

One-line description:

GENSYM message refers to extraneous init forms

Problem:

Compiler Warning Message Problem
The compiler generates a warning message about extraneous init forms when these are encountered. Unfortunately, the error message is somewhat garbled. The value that it displays in the error message is the print name of a GENSYM, rather than any indication of the form that caused the error. It looks as if the message constructor does not evaluate an internal compiler symbol (the GENSYM), but prints its name instead.

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KPR #: 4000034744 **CONTINUED**

This only occurs with COMPILE-FILE, not with COMPILE (the latter produces no such warning).

Example: Compile a file containing the following:

```
((lambda (x)
  (setq x 'foo)
  (symbol-name x)
  nil)
-----)
```

Temporary solution:

```
Try: (PROCLAIM '(WARN NIL))
```

This turns off all warnings!

Fix information:
Will not fix

KPR #: 4000036616 Product: COMMON LISP DEVELOPMENT HP98678A 01.01

One-line description:

Lisp should load required modules automatically.

Problem:

The LISP modules loaded to the lisp-loader kernel with the make-nmode script should be "orthogonal" in the sense that none of them requires any other module to be present when loaded. If one module needs another one to be present it should execute a (require <module>) by itself.

However, when I tried to just execute (require "nmode") from the bare lisp-loader kernel, I got the error message "undefined function: load-of-ile". When I tried to execute

```
(require "external")
(require "nmode")
```

the function "debug::add-to-visibility-class" was not defined. This means: whenever you want to (require "nmode") you need to (require "debug") and (require "external") first.

Workaround:

Load the required modules with (require <module>).

Fix information:

May be fixed in a future release.

Duplicate Service Requests: 4000046136

- COMMON LISP DEVELOPMENT -

KPR #: 4000046110 Product: COMMON LISP DEVELOPMENT HP98678A

01.00

One-line description:
If a Q-Prolog is loaded, output can go to the wrong window

Problem:

If Q-PROLOG is loaded from a Lisp listener, the output will continue to go to the listener window instead of the output buffer.

Bring up an NMODE with Z-PROLOG in it. Execute a Lisp-L and evaluate the form (q-prolog). Then exit q-prolog with a "D" and return to nmode with (nmode:nmode). Upon returning, q-PROLOG will continue to output to the listener window instead of the output buffer.

Workaround:

Don't load Q-PROLOG for the first time while in the Lisp listener. It will work correctly, as long as it is not loaded while in the Lisp-L.

Fix information:
Will not fix

KPR #: 4000046128 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

One-line description:

Current language can get out of sync with mode of buffer

Problem:

There are certain conditions in which the listener (current language) can get out of sync with the mode of the buffer in NMODE. The circumstances are described in Prolog Users guide.

Do a Lisp-L while in a Lisp buffer. Then evaluate the function (z-prolog). Inside Z-PROLOG, do a (lisp-eval ?x (nmode:nmode)) to return to NMODE without leaving the Z-PROLOG language. The buffer you return to will be in Lisp mode but in the Z-PROLOG language (the listener will be in Z-PROLOG).

Workaround:

Simply cycle through the language modes until you return to the mode you want. The listener will be correct by then.

Fix information:
Will not fix

KPR #: 4000046433 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

One-line description:

Emacs menu "MODES" not complete.

Problem:

Emacs popup menu "MODES" only contains Lisp, Text, and Auto Fill. It should also contain C, Pascal, Fortran, Z-Prolog and Q-Prolog if these facilities are loaded.

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KPR #: 4000046433 **CONTINUED**

Fix information:
May be fixed in a future release.

KPR #: 4000046441 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

One-line description:
When loading files, cannot determine use of old or new entry points

Problem:

If you try to load-offile at some entry point which already exists in the system it is not easy to tell whether you are getting the existing entry-point or a new one.

For example, Nmode always has the Windex (hp-ux 3w) libraries. This contains an entry point named "wmove". If you want to use the curses junk and use that "wmove" you will not have an error on the load-offile but will get one when you think you are calling curses and end up calling windex.

Workaround:

You can push the symbol of the entry point onto the *protected-entry-points* list and then use the :redefining keyword in the load offile to redefine during the load the entry point in question.

We should include a specific explanation of this phenomena in the documentation.

Fix information:
Will not fix

KPR #: 4000046771 Product: COMMON LISP DEVELOPMENT HP98678A 00.00

One-line description:
lisp sometimes hangs, this is aggravated by prolog

Problem:

It is possible to get the PROLOG system into such a state that the BREAK key will not ever be processed. In other words, the system hangs. This generally will not happen unless BREAK is not hit for at least a couple minutes after a predicate starts looping.

Define the following predicate in Z-PROLOG and evaluate the second call (the one in the comment below). Wait several minutes (I waited 8) and hit BREAK. It will not respond.

```
(defpred reverse
  ((reverse ?list1 ?list2)
   (rlist ?list1 () ?list2)))
(defpred rlist
  ((rlist () ?list1 ?list1)
   (rlist ?list1 ?list1 ()))
```

- COMMON LISP DEVELOPMENT -

KPR #: 4000046771 **CONTINUED**

```
((rlist (?a . ?b) ?c ?r)
 (rlist ?b (?a ?c) ?r)))
;(reverse (a b c) (c b a))
;(reverse ?x (a b c))
```

Workaround:

Hit BREAK earlier in the process. If this happens and it does not return, then you must restart NMODE/PROLOG. Note that this never interferes with the correct operation of correct programs.

Fix information:
Will not fix.

KPR #: 5000170167 Product: COMMON LISP DEVELOPMENT HP98678A 01.01

One-line description:
Setq & setf combination results in system termination.

Problem:

Common Lisp bug:
(setq a (make-array '(2 3)))
(setf (apply #'aref a' (1 1)) 1)
Bombs the system, the following works:

```
(setq a (make-array '(2 3)))
(setq z '(1 1))
(setf (apply #'aref a' z) 1)
```

Fix information:
Will be fixed in a future release.

KPR #: 5000193656 Product: COMMON LISP DEVELOPMENT HP98678A 01.00

One-line description:
inquire_hit function not included in HPUX_3g package for LISP

Problem:

The customer has tried to use the Inquire Hit function which is a new feature with version 5.12 of the Starbase Graphics but this was not available through the HPUX 3g package from Lisp 1.01. She wants this feature to be added. She knows that she can write a foreign function call from Lisp that will allow the use of this but she wants it in the HPUX_3g package.

Temporary solution:

Make a file with the following things in it:
(in-package 'hp-ux_3g)
(export '(inquire_hit))
(extn:defexternal inquire-hit ...)

It appears that you already have the defexternal defined. This file can be compiled and the binary can be loaded in your .lisprc or .nmode.rc. It could could also be put in your make-nmode.

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KPR #: 5000193656 **CONTINUED**

Fix information:
Will not be fixed.

KPR #: 5000272898 Product: COMMON LISP DEVELOPMENT HP98678A 01.01

Keywords: DOCUMENTATION LISP

One-line description:
Error in lisp application note example.

Problem:
The "Window smart example" in Chapter 5 "Term0 Windows" of "Lisp Application Note" (part# 98678-90010 p71) causes "file stream error".

When we evaluate "(query-usr wmfid "Jimi" "Hey Joe, where you going with that pizza in your hands?")", a window is successfully made but after displaying the message "Hey Joe, your han", an error occurs. The error message is:

```
!!!! Error: Unknown file stream error with stream #<File Stream
/dev/screen/Jimi^e>
Condition signalled in :LISP::FILE-OUT
```

*** System ***
9000/350, HP-UX 5.5, Common Lisp 1.01

Temporary solution:
In the function query-user, change the call set-canonical to set-raw. You will have to handle echoing and backspacing yourself.

Fix information:
Will not fix.

KPR #: 1650041749 Product: COMMON LISP EXECUTION HP98679A 01.00

One-line description:
Order of FORTRAN function parameters effects calc. when called from LISP.

Problem:
Example in Lisp programmer's guide p.141 fails when sequence of parameters in both Lisp program as well as in Fortran routine are changed. Only the original sequence generates the right result.

Temporary solution:
The workaround is a redefinition of two LISP macros. This fix should be referenced in the user's .nmoderc file.

Fix information:
Will be fixed in a future release.

KPR #: 4000058446 Product: DOS COPROCESSOR SFTW 98531A

01.05

One-line description:
CTTY does not work with VIAC00PD loaded

Problem:
CTTY is a MSDOS command that allows a character I/O device to be substituted for the standard console. It does not work when Viac00pd is loaded.

Cause:

This problem associates with the program, VIAC00PD.EXE, which has been obsoleted in version 2.00.

Temporary solution:

Unload the Networking software by typing nocoopd at the MSDOS prompt. The HP-UX file system can not be accessed, however CTTY should work.

Fix information:

not applicable any longer on 2.00+

KPR #: 4000078683 Product: DOS COPROCESSOR SFTW 98531A

01.06

One-line description:

Shell escape from DOS and try to start DOS again. Font's get trashed.

Problem:

When a soft-reset is done in the ITE (shift-break key) it overwrites the offscreen memory in the display. The fonts stored by the DOS coprocessor get overwritten. The only workaround is to exit dos and re-start.

(Note that re-starting DOS from a shell escape fails. However the ITE is reset during that process, thus overwriting the original fonts)

Cause:

Fonts get unloaded

Temporary solution:

No workaround needed

Fix information:

This problem fixed in version 2.1. But there are still a few rare instances where fonts can get trashed in dos.cga.

KPR #: 5000429019 Product: DOS COPROCESSOR SFTW 98531A

01.20

One-line description:

dos subsystem ties up system when pressing extend/reset for long time

Problem:

The autorepeating flush key caused the DOS System to

- DOS COPROCESSOR SFTW -

KPR #: 5000429019 **CONTINUED**

repeatedly fork/exec the lp process. These are costly operations in terms of compute time (lots of swapping) and the large number of requests generated by the autorepeat caused the system to grind to a halt.

Cause:

Getting autorepeat directly from X sometimes leads to too many key presses

Fix information:

This problem is fixed in version 2.1 and following.

KPR #: 5000479725 Product: DOS COPROCESSOR SFTW 98531A

01.20

Keywords: DOS CO-PROCESSOR

One-line description:

pop up menu under dos.x hangs the dos window

Problem:

X Library changes made in 6.5 made some implementation assumptions no longer valid. The 6.2 libraries did not exhibit this problem. Version 2.00 of the DOS Coprocessor software was developed on 6.2.

Cause:

The X libraries changed for HP-UX 6.5 causing DOS to fail.

Fix information:

Changed the user interface for 2.1

- DOS COPROCESSOR SFTW -

KPR #: 1650042044 Product: HP PROLOG 1.0 79232U

01.00

Keywords: PROLOG

One-line description:
PROLOG goes into infinite loop on certain predicates.

Problem:
HP9000/350 with 16Mbyte ; HP-UX 5.22 ; CommonLisp and HP-Prolog

1. Define the following two predicates:

```
((defpred fibonacci
  ((fibonacci 1 0))
  ; ((fibonacci 1 1))
  ((fibonacci ?fn ?n)
   (+ ?n -1 ?n-1)
   (fibonacci ?fn-1 ?n-1)
   (+ ?n -2 ?n-2)
   (fibonacci ?fn-2 ?n-2)
   (+ ?fn-1 ?fn-2 ?fn)))
```

2. Prove
(fibonacci ?res 5)

It is not possible to abort the evaluation of this endless loop
using the break key.

Fix information:
Will not be fixed.

KPR #: 4700441717 Product: HP SQL/300 79725A

00.00

One-line description:
we need to raise the minimum number of log pages allowed

Problem:
A user can specify a minimum of 120 log pages on HP SQL/300 while HP SQL on the Series 840 has a minimum of 136 log pages. For compatibility, these numbers should be the same.

Cause:
A constant needs to be redefined from 120 to 136. In reality, for the latest A.B2.00.00 ALLBASE release on the Series 840, the minimum number of log pages has been set at 144 pages.

Temporary solution:
On HP SQL/300 specify a minimum of 136 log pages. To be compatible with the latest Series 840 A.02.00 HP SQL release (ALLBASE A.B2.00.00) specify a minimum of 144 log pages.

Fix information:
The problem will be fixed in resync 300 base code.

Signed off 03/09/89 in release A06.05

KPR #: 4700451161 Product: HP SQL/300 79725A

00.00

One-line description:
'unload to external..' from cmd file requires all params on one line

Problem:
When doing an ISQL 'unload to external' from a command file, a single character on one line causes a problem to occur. The error returned is #47 - Missing parameters from command file.

Cause:
None at this time.

Temporary solution:
When using 'unload to external' from a command file, put all required parameters on a single line.

Fix information:
To be fixed by resynch in 6.5 release.

Signed off 03/07/89 in release A02.00

KPR #: 4700455444 Product: HP SQL/300 79725A

00.00

One-line description:
illegal syntax error generated due to bigfile processing

Problem:
Due to the 255 bytes limitation on strings, large queries are sometimes incorrectly recalled from big file processing. When these are run through ISQL, a syntax error is returned.

KPR #: 4700455444 **CONTINUED**

Cause:
HP SQL was incorrectly concatenating lines every 256 bytes rather than the 2048 bytes found on the Series 840 HP SQL version.

Temporary solution:
Limit the length of large queries to less than 256 bytes.

Fix information:
To be fixed by the resynch in 6.5 release. David Ai

Signed off 03/07/89 in release A02.00

KPR #: 4700481937 Product: HP SQL/300 79725A 00.00

One-line description:
Installation module size not compatible with that of hp sql/300

Problem:
There is an alignment difference in the sizes of HP SQL/300 and HP SQL (Series 840) ISQL install modules. This causes some porting problems for HPtoday and HP SQL users who want to transfer these modules between different 300, 500, and 800 series hardware.

Cause:
An alignment difference exists between HP SQL/300 and HP SQL on the Series 840. The HP SQL/300 length is 498 bytes while HP SQL/840 is 500 bytes for a module. The extra 2 bytes (filler) needs to be added to HP SQL/300 module size.

Temporary solution:
No temporary workaround exists for porting modules.

Fix information:
Will be fixed by the resynch in 6.5 release. David Ai 9/1/88

Signed off 03/07/89 in release A02.00

KPR #: 4700539148 Product: HP SQL/300 79725A 00.00

One-line description:
BULK FETCH bug. Can only retrieve a certain number of rows.

Problem:
The problem exists as Charlie stated it. Tony found the bug in a piece of assembly code that reads a word instead of a longword from the length register so only a certain number of rows can ever be fetched. There is a workaround. Only 65535 bytes can be fetched at a time, so divide by the number of bytes per tuple and that will be the max number of rows that can be fetched at a time.
No error message was ever returned. gk

Cause:
As identified by Tony, the problem is in a piece of assembly language routine inside SQLCore. I am transferring this to May's group that handles SQLCore.
David Ai 9/1/88

- HP SQL/300 -

KPR #: 4700539148 **CONTINUED**

The assembly code that reads a word instead of a longword from the length register so only a certain number of rows can ever be fetched. Only 65535 bytes can be fetched at a time.
No error message was ever returned. gk

Fix information:
This problem has been fixed in release version 1.01 or later.

Signed off 05/23/89 in release A02.00

KPR #: 4700552232 Product: HP SQL/300 79725A 00.00

One-line description:
LOAD command failing when pattern matching specified

Problem:
version 1.0

There is a problem with the LOAD command. Try loading from an external file using a pattern to a relation. Eg:
LOAD FROM EXTERNAL extern TO TEST

SERLNL 1 10 #
END

YES 1 a;

isql will still prompt you for the starting location and the pattern even though you've given it. After specifying these values, nothing is loaded even though some tuples qualify. Specifying an uppercase A instead of a lowercase a will cause qualifying tuples to be loaded.

Cause:
This problem was caused by an ISQL defect.

Fix information:
To be fixed by the resynch in release 6.5. David Ai 9/1/88

Signed off 03/07/89 in release A02.00

KPR #: 4700579508 Product: HP SQL/300 79725A 00.00

One-line description:
negative numbers improperly sorted by ORDER BY

Problem:
DMCCD (column compare) does not work correctly on the 300 code.

Cause:
See problem text.

Fix information:
This will be fixed on the 300 6.5 release.

Signed off 03/09/89 in release A06.05

Duplicate Service Requests: 5000296913

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KPR #: 4700590638 Product: HP SQL/300 79725A 00.00

One-line description:
multi-table joins may cause memory allocation failures

Problem:

The problem was in the optimizer, which was using an unnecessary large amount of memory for a multi-table join. Memory utilization was large enough to cause queries to fail with "HP SQL memory allocation failed" error during optimization.

Cause:

Some memory no longer needed by the optimizer was never being released. Thus, with multi-table joins which involve many join orders and index plan possibilities, available memory would be exhausted.

Fix information:

A fix was made to release memory no longer needed.
Fixed in Release 1.01.

Signed off 12/21/89 in release A20.00

KPR #: 4700594275 Product: HP SQL/300 79725A 00.00

One-line description:
incorrect error msg when using isql from directory w/bad permissions

Problem:
rev 1.0 When trying to select from within isql and the permissions are incorrect in the current working directory, the error msg needs to be cleaned up. A pascal runtime error is output along with a hp-ux system error 13. What should be output is 'security violation, permission denied (DBERR 220)', gk 3/22

Cause:

This problem was caused by ISQL's not interpreting HP-UX return code.

Fix information:

Will be fixed on 6.5 release. David AI 9/1/88

Signed off 03/07/89 in release A02.00

KPR #: 4700594309 Product: HP SQL/300 79725A 00.00

One-line description:
unload command with embedded select stmt causes syntax error

Problem:

Lines from the SELECT clause of the ISQL UNLOAD command are concatenated without the insertion of a blank. This results in an error for the SELECT clause when it is parsed.

Temporary solution:

This problem can be worked around by inserting a blank at the

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KPR #: 4700594309 **CONTINUED**

beginning of every line within the doubly quoted SELECT clause.

Fix information:

Will be fixed on 6.5 release. Linda Spilo 11/3/88

Signed off 03/07/89 in release A02.00

KPR #: 4700664219 Product: HP SQL/300 79725A 00.00

One-line description:
internal error msg returned for < minimum log pages on start db

Signed off 05/23/89 in release A02.00

KPR #: 4700687905 Product: HP SQL/300 79725A 00.00

One-line description:

C compiler cannot resolve symbols when linking more than 1 object file.

Problem:

When an application contains two or more program source files and after preprocessing these source files, at linking time the linker complains 'sqlmodname' and 'sqlowner' as multiple defined symbols.

Cause:

This problem is caused by the C Preprocessor in HP300 system defined 'sqlmodname' and 'sqlowner' as global variables in each corresponding type file for each program source file which has been preprocessed, and after compiled by C compiler these global have been into each object file, therefore when linker tried to link these object files it detected two identical global variables in each object file and issued warning messages.

Fix information:

The problem was fixed by recompiling the fixed C preprocessor module (generating both 'sqlmodname' and 'sqlowner' as static variables instead of global variables) and recreating a new C Preprocessor.

Signed off 03/07/89 in release A02.00

KPR #: 4700688226 Product: HP SQL/300 79725A 00.00

Keywords: ISQL

One-line description:

ISQL exhibits transaction errors when loading large table from external.

Problem:

ISQL gives the user multiple (~12) duplicate error messages indicating a transaction is not in progress when the user tries

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KPR #: 4700688226 **CONTINUED**

to commit work (DBERR 2102) after loading a large number (3477) row of data into a table. This seems to occur only when the database has been loaded with a fair amount of data (it does not occur when the data is initially loaded). This problem does not seem to be dependent on a particular table (any large table will do).

Cause:

This problem is caused by loading large amounts of data at a time into a database that already contains a fair amount of data.

Temporary solution:

Use LOAD PARTIAL to load smaller amounts of data at a time.

Fix information:

This problem will be fixed for release 2.00.

Signed off 12/19/89 in release A02.00

KPR #: 4700712463 Product: HP SQL/300 79725A 01.01

One-line description:

FORTRAN preprocessor doesn't allow underscore in variable names

Problem:

The Fortran/300 preprocessor does not allow underscore in variable names.

Cause:

This problem is caused by the Fortran/300 preprocessor not allowing underscore in variable names. The Fortran/800 preprocessor allows underscore. The problem will be fixed upon completion of the 800/300 code resync.

Fix information:

This will be fixed in the resync (release 6.5).

Signed off 03/07/89 in release A02.00

Duplicate Service Requests: 5000433540

KPR #: 4700713743 Product: HP SQL/300 79725A 01.01

One-line description:

incorrect and nonexistent error msg (DBERR 3045) output

Problem:

Described in Submitter Text.

Cause:

Described in Verifier Text.

Fix information:

Fixed in HP SQL/300 Release 2.0 on 6.5 which is the re-synced code.

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KPR #: 4700713743 **CONTINUED**

Signed off 12/21/89 in release A20.00

KPR #: 4700714352 Product: HP SQL/300 79725A 01.01

One-line description:

select while in unwritable directory causes abort from isql

Problem:

ISQL gives a cryptic error message and aborts when the user tries to do a SELECT after invoking ISQL from a directory that is not writable.

Cause:

ISQL tries to create a temporary file when doing a SELECT. When the directory is not writable, ISQL is not able to do this. This error condition should be handled better by ISQL by giving the user a better error message and not aborting.

Fix information:

This will be fixed for the 6.5 release.

Signed off 03/07/89 in release A02.00

KPR #: 4700720177 Product: HP SQL/300 79725A 01.01

One-line description:

ER to keep daemon from outputting errors to /dev/console

Problem:

The 1.01 software had this problem. With the 6.5 software, one can do a 'msg -n' to disable writing to the console. The daemon will then write its messages to /tmp.

Cause:

On 1.01 the daemon would abort if it did not have write permission on the console. With 6.5, if it can't write to the console, it will simply write its message to /tmp.

Fix information:

This will be fixed in release 6.5 on the 300s.

Signed off 03/09/89 in release A05.05

Duplicate Service Requests: 4700720169

KPR #: 4700740589 Product: HP SQL/300 79725A 01.01

One-line description:

Internal error occurs in a query with 2 aggregates in an expression.

Cause:

The bug was due to two factors:

1. Internally, only enough space for the number of select items

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KPR #: 4700740589 **CONTINUED**

was allocated, not for the number of columns referenced within the select items.

2. The count distinct required a sort. Since the sort list is allocated right next to the select list internally, when the select list was lengthened due to items referring to more than one column, the new items were written over when the sort list was generated (in the space allocated for it)

Fix information:

To fix this problem, sufficient space was allocated for the select item list to handle the case when more than one column is named in a single select item.

This fix will appear in the HP-UX/300 7.0 release.

Signed off 12/27/89 in release A02.00

KPR #: 4700743401 Product: HP SQL/300 79725A 01.01

One-line description:

For certain decimal type fields, negative numbers are stored as positive

Problem:

When inserting negative decimal values into decimal columns, if the number of digits after decimal point matches exactly the scalar of the column defined, and the precision is bigger than 7, then the negative sign will be lost:

e.g. Column defined as: Decimal (9,2)
 Value entered : -12.50
 Result : 12.50

Cause:

This is due to a problem in HP SQL that at runtime the minus sign is lost if:

- 1) The input format has the same scalar as the column definition;
- 2) the input value takes a smaller storage space than the column e.g. decimal (9,2) takes 8 bytes but -2.45 takes 4 bytes.

Fix information:

The fix is in HP SQL so that it references the correct sign bit location.

The work around is to enter data where scalars between the entered value and the column definition are different.

Signed off 12/29/89 in release A02.00

Duplicate Service Requests: 4700748301

KPR #: 4700747246 Product: HP SQL/300 79725A 01.01

One-line description:
 4053 on an update of a table with multiple indexes

Cause:

The problem appeared because in attempting to locate the update column(s) in the index column list(s), the search continued past the end of the list(s).

Fix information:

The fix will appear in HP SQL/300 release 7.0.

Signed off 12/27/89 in release A02.00

KPR #: 4700748368 Product: HP SQL/300 79725A 01.01

One-line description:

DBCORE 285 caused by application with CS (or RC) and ORDER BY clause.

Problem:

BEGIN WORK CS;
 SELECT ... ORDER BY ...;

The above sequence returns a DBCore error 285.

Cause:

IS-Level CS or RC is not supported on list scan since there is no concurrency issue on temp table (temporary table is owned by only one user). SQLCore should be using RR whenever it scans a temporary table.

Temporary solution:

Build an index on the order by column would be one work around. Another way is doing the query in RR IS-Level.

Fix information:

The fix involved making sure that the correct isolation level was used on the sorted data.

This fix will be in HP SQL/300 Release 7.0.

Signed off 12/27/89 in release A07.00

KPR #: 4700753293 Product: HP SQL/300 79725A 01.01

One-line description:

With NEQ operator, tuples w/ unknown search condition value are returned

Problem:

When a factor containing an NEQ operator is evaluated at the DBCore level, tuples for which the value of the search condition is unknown will be returned, violating ANSI SQL1.

Cause:

When a factor containing an NEQ operator is evaluated at the DBCore level, SQLCore fails to AND a null test with the factor,

KPR #: 4700753293 **CONTINUED**

causing the incorrect results.

Temporary solution:

A temporary workaround is to explicitly include a null test in the query. For example,

```
cl <> 10
```

would become:

```
(cl <> 10) and (cl is not null).
```

Fix information:

This defect will be fixed in release 7.0.

Signed off 12/29/89 in release A07.00

KPR #: 4700768077 Product: HP SQL/300 79725A 01.01

One-line description:
Query with 13 between clauses fails with DBCore Internal Error 216.

Problem:

DBcore was issuing bus error (error number 216) when a query had more than 13 'and' conditions. The stack size in one of the DBcore module was not sufficient enough and a null pointer was referenced. This problem was only on 300.

Cause:

Please see problem text.

Fix information:

This problem has been fixed in release 7.0 IC2.

Signed off 01/02/90 in release A07.02

KPR #: 4700776633 Product: HP SQL/300 79725A 01.01

One-line description:
ISQL help text examples should display the semicolon at end of command.

Problem:

The examples in the online HELP text should contain semicolons. Some currently do, but most do not.

Cause:

Not all examples in the ISQL HELP text end with a semicolon. All examples should contain semicolons.

Temporary solution:

Always add a semicolon to the end of all queries entered through ISQL.

Fix information:

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KPR #: 4700776633 **CONTINUED**

Semicolons ';' have been added to the examples of help text. This will go out on Rel 7.00 IC2.

Signed off 12/19/89 in release A07.00

KPR #: 4700776641 Product: HP SQL/300 79725A 01.01

One-line description:

Incorrect error msg from ISQL when ran out of disk space for tmp file.

Problem:

ISQL prompts the user to mount another tape when it runs out of space in the directory. It should give the user a better error message when this happens and not prompt them for another tape.

Cause:

The HP-UX operating system returns the same error message when it has reached the end of the tape as when it has used all the available disk space within the directory. ISQL needs to determine what device is causing the error before deciding whether to prompt the user for another tape or tell the user there is no more space in their directory.

Fix information:

The error message has been updated to take into consideration for both the tape and disk storage devices. In addition, a DWARN message is issued when the device is full. This will go out on REL 7.00 IC2.

Signed off 12/19/89 in release A07.00

KPR #: 4700777813 Product: HP SQL/300 79725A 01.01

One-line description:

Problem with using ISQL on 700/43 terminals

Problem:

ISQL uses HP Escape characters to clear the screen, highlight text and underline text. Two new terminals, the 700/41 and 700/43 do not support these escape characters. As a result the screen is not cleared when ISQL is invoked and the SELECT output is displayed. It also causes problems when displaying HELP text, since highlighting and underlining are done regularly when displaying this text.

Cause:

Two new terminals, the 700/41 and 700/43 do not support the HP escape characters. ISQL uses these when displaying HELP text, clearing the screen for SELECT output and clearing the screen when invoking ISQL.

Temporary solution:

It is not critical that the screen get cleared when invoking ISQL or displaying the SELECT data. The main problem is in using the HELP text. To work around this problem, the ISQL and SQL Reference

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KPR #: 4700777813 **CONTINUED**

Manuals should be used instead of the online HELP facility within ISQL. Note that there is a summary of ISQL and SQL syntax in appendices A and B of the ISQL Reference Manual.

Fix information:

All control characters have been replaced by special characters. (eg. ' ' , ' ' , ' '). The should be out on Rel 7.00 IC2.

Signed off 12/19/89 in release A07.00

KPR #: 4700778951 Product: HP SQL/300 79725A 01.01

One-line description:
hpbdaemon dies on CONNECT (error 1067) on S300 w/ floating pt accel.

Problem:

The hpbdaemon was not passing a properly sized buffer in a system library call on the 300 which caused other variables to be overwritten. One of these variables was the DBCon name which then caused the 1067 error. Only users running on 300 hardware including the floating point co-processor and the floating point accelerator would potentially hit this problem.

Cause:

Please see problem text.

Fix information:

The buffer size on the 300 for the library call has been corrected. This problem will be fixed in release 7.0

Signed off 01/02/90 in release A07.01

KPR #: 4700793570 Product: HP SQL/300 79725A 01.01

One-line description:
After update or delete, opened cursor reads old data within transaction.

Cause:

There is a problem with cursor sensitivity in HP SQL within a transaction. If a cursor is defined and opened, and within this transaction updates or deletes are performed which effect the result of the cursor, these changes are not reflected when using the cursor.

So if a delete is performed for example by the user within the same transaction as the cursor, a fetch from the opened cursor may still retrieve tuples which were deleted.

KPR #: 4700803395 Product: HP SQL/300 79725A 01.01

One-line description:

Data corrupted on 2048 byte when entering char string > 2048 bytes

Problem:

There was a problem obtaining memory for an internal buffer

KPR #: 4700803395 **CONTINUED**

when the first allocation is greater than 2k. Therefore, the value would be corrupted after the 2k offset.

Cause:

Only 2k bytes was being allocated for the value.

Fix information:

Fixed in the 7.0 HP SQL Release.

Signed off 12/20/89 in release A07.00

KPR #: 4700820704 Product: HP SQL/300 79725A 01.01

One-line description:
Query result was sorted in ASC order although DESC was specified.

Problem:

A query where an descending order was specified may come out in ascending order if it involves a join with an equal predicate and indexes are available on the table.

Cause:

A new sort merge join algorithm is incompatible with a sort optimization algorithm using indexes. If the optimizer chooses to employ both algorithms, the results may not come out in the specified order.

Fix information:

A fix was made to disallow both sort merge join and index sort optimization at the same time. This fix will be available in UX release A.07.00.13.

Signed off 11/15/89 in release A70.00

KPR #: 4700829655 Product: HP SQL/300 79725A 01.01

One-line description:
The bugcatcher on the 300 aborts with segmentation violation

Problem:

The bugcatcher on the 300 aborts with segmentation violation.

Cause:

There was a bug in one of the 300-specific debug include files.

Fix information:

Fixed in a post pass 15 IC3 D.0 version. This version does not exist as yet (as of 10/6/89 0900 HRS), but when it does, the version will be A.07.03.16 (UX) and A.20.03.16 (XL).

Signed off 12/18/89 in release A07.03

KPR #: 4700849927 Product: HP SQL/300

79725A

01.01

One-line description:

ISQL is not checking for overflow on a 4 byte FLOAT.

Problem:

The ranges of a 4 byte float is not checked when loading through ISQL.

Cause:

Overflow checking on Unix is only reported for double precision floats, a 4-byte float will never get an overflow error.

Temporary solution:

Check through the input file for 4 byte float values manually.

Fix information:

The problem has been corrected and will go out with rel ux 8.0.

KPR #: 4700869537 Product: HP SQL/300

79725A

01.01

One-line description:

DBERR 8207 returned by SHOWDBE command in SQLUTIL.

Problem:

While executing a SHOWDBE command of SQLUTIL under another user's directory, DBERR 8207 "Operation not performed; illegal capability" was received. However, the command was executed without problem.

Cause:

Redundant checks are performed in SQLUTIL, causing the incorrect error message.

The real cause of the problem is when SQLUTIL tries to obtain the maintenance word for the current user. If this fails, the error message 8207 will appear. But only for that attempt. The rest of the command will continue to execute.

KPR #: 4700875468 Product: HP SQL/300

79725A

00.00

One-line description:

Missing tuple in a multi-user KC test

Problem:

This problem can manifest in 2 ways:

1. Error 2060 is generated when a tuple (record) is updated or deleted.
2. In a SQL command where an index scan is used, a key may not be found where it actually exists.

An index scan may be used on a SELECT, FETCH, UPDATE, or DELETE. When a key is not found, no error is returned. The problem can occur with heavy updates on a b-tree index. In other words, the b-tree keys need to be updated heavily where b-tree pages will be deleted

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KPR #: 4700875468 **CONTINUED**

and created.

If a SQL application updates index keys, then the index's integrity should be checked, regardless of having an error returned or not. The best way to check a b-tree index integrity is to use a fast tool. Until such a tool is available, there is a work around to check a b-tree index integrity.

TEMPORARY WORK AROUND FOR INDEX INTEGRITY CHECK:

The temporary work around may be slow especially with a large table. Simply issue the following command:

DELETE * from TABLE;

ROLLBACK WORK;

The delete command will consume log space. Log should be large enough to allow the delete to complete successfully. Note that a rollback command is issued after the delete because the intent is not to delete but to check the integrity of the index.

In a manufacturing environment, the integrity of indexes may be checked one at a time during slow hours.

HOW DELETE CHECKS THE INTEGRITY OF THE INDEX:

To delete all the rows in a table, a table scan is executed. For each row, we will search for the corresponding key in each of the table indexes. If the delete command returns no error, then each index for the table is good. If an internal error (2060, 2060) is returned, then one of the table's indexes is bad. This index should be dropped and recreated. It is highly recommended to drop all the indexes and recreated.

CAUSE TEXT:

The handling of page free and page add (split) was incorrect. Heavy updates to the index can cause a key to be inserted in the wrong place.

FIX INFORMATION:

Once an index is checked and is found good, the fixed software will ensure that the discussed type of corruption will not reoccur. With recreated indexes, the fixed software provides the same insurance. By attempting to keep existing indexes good, a local space problem may occur where an error (1025) may be returned. In such a case, the index should be dropped also, and recreated.

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Fix information:
Fix available in:

UK	XL
D.0	A.20.03.23
D.1	A.21.02.11
E.0	A.30.01.05

Note that with the D.0 fix, there will also be the possibility that newly created indexes (or index uncorrupted so far) may generated a "no space" condition. This is a real corner case, and will force users to drop and recreate their indexes when it happens. But ALLBASE is guaranteed NEVER to corrupt indexes because of this bug any more.

Signed off 02/21/90 in release A70.23

KPR #: 4700876060 Product: HP SQL/300 79725A 01.01

One-line description:

DBERR 13262 and RC 196 on SELECT w/ IN predicate during regression test

Problem:

A query containing an IN predicate with host variables and null indicators, and three or more values in the list may fail with an internal error.

Cause:

This defect results because the parse tree built is not in the form required for OR optimization, and the predicate tree size is calculated incorrectly.

Fix information:

This defect will be fixed in the XL 3.0 and UX 8.0 releases, and will be available for a 7.0/2.0 and 2.1 patches.

KPR #: 4700876516 Product: HP SQL/300 79725A 00.00

One-line description:

DBCORE error 2060 from aci_fetchc (reproducible through Info Access)

Problem:

Corrupted DBFILE0 in an application where the parent process is constantly being killed and restarted.

Cause:

The parent application is closing and reopening the 3 STD files before and after connecting to the DBE. We have a problem with HP SQL in that it writes to STDLIST and STDERR (i.e. fds 1 and 2) all the time. If the parent is closing these files before forking hpsqlproc, the fds 1 and 2 may correspond to some DBE files. That will do it.

KPR #: 4700876516 **CONTINUED**

Problem is UX specific.

Fix information:

This fix will be available in UX 8.0 and following releases as well as patch releases for UX 3.1 and UX 7.0.

KPR #: 4700882936 Product: HP SQL/300 79725A 00.00

One-line description:

Large variable index keys do not work correctly.

Problem:

Sometimes, the INSERT/UPDATE of a large key (about 990+ bytes) generates an internal error 2080.

Cause:

Currently, the way index page splits work, if a new key value comes along and there is not enough room on its candidate page, the index manager will split this page, put one half of the current tuples in one page, the remainder in the second one, and then try to insert this new value.

It is totally possible that even after this split, we do not manage to fit the new tuple in its (new) candidate page. At this point, resplitting this page is a problem. Here is where the index manager was getting confused.

Fix information:

Fix available in:

	UX	XL
D.0	Exists, not fixed	Exists, not fixed
D.1	Exists, not fixed	Exists, not fixed
E.0	A.08.01.06	A.30.01.06

KPR #: 4700883009 Product: HP SQL/300 79725A 00.00

One-line description:

chunkfile existence not being verified in rollforward recovery

Problem:

HPIMAGE basically uses the extend chunk feature during rollforward recovery. Dbcore w & dBas not replaying the pages for the extend & d@ chunk and thus the recovery wasnot completed.

Cause:

Dbcore was reinitialising the pages to the newest version at the time of recovery. And this didnot allow the recovery to replay the pages.

To fix the problem, we reinitialised the pages to lowest version number. The file affected was "dtfoch".

Temporary solution:

KPR #: 4700883009 **CONTINUED**

At this point, we do not allow rollforward recovery through a CREATE DBEFIL command. The temporary workaround would be for the user to perform all the CREATE DBEFILs and then do a STORE of the entire environment.

We will seriously investigate fixing this bug in the very near future.

7/19/88

KPR #: 4700883033 Product: HP SQL/300 79725A 00.00

One-line description:
DBCore Internal Error 1057 returned when log full during SORT.

Problem:
Yet another case of attempting to exit DBCORE without unpinning all pinned pages.

Cause:
After a SORT operation fails on a normal error (out of space etc) this may happen.

Fix information:
Fix available in:

	UX	XL
D.0	Not to be fixed	Not to be fixed
D.1	Not to be fixed	Not to be fixed
E.0	A.80.00.03	A.30.00.03

KPR #: 4700883306 Product: HP SQL/300 79725A 01.00

One-line description:
Must enter EXIT; a few times to exit ISQL when user #2 does a STOP DBE

Problem:
When in multi-user mode and another user issues a STOP DBE, ISQL does not correctly recognize that the DBE has been stopped and requires the user to enter multiple EXIT commands to EXIT from ISQL.

Cause:
ISQL does not correctly test for a STOP DBE being done by another user. As a result, when a DBCORE error is encountered when trying to EXIT from ISQL, ISQL simply reports the error back to the user and aborts the command. It is not till several errors are encountered does ISQL realize that no database is connected to and it allows the user to exit ISQL.

Temporary solution:
Proceed with entering EXIT and ignore the extra messages.

Fix information:

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KPR #: 4700883306 **CONTINUED**

This problem will be fixed in Rel 8.0.

KPR #: 4700883322 Product: HP SQL/300 79725A 01.01

One-line description:

ISQL: Entering 'non-existent' command gives DBERR 2102

Problem:
ISQL does not give consistent error messages for single letter commands entered after a connect is done. Since a transaction should automatically be started for the user, then all the commands should get the DBERR 2214 error message.

Cause:
ISQL does not correctly handle all unknown commands (i.e. single letter commands) consistently. Note that some single letter commands, such as "C" and "U", are valid abbreviations for ISQL commands (see CHANGE and UNLOAD).

Temporary solution:
Ignore the message if the command entered is not valid.

Fix information:
This problem has been corrected in Rel 8.0. A more appropriate message will be issued.

KPR #: 4700883413 Product: HP SQL/300 79725A 01.01

One-line description:
ISQL does not allow > 255 when SELECT includes joined tables

Problem:
SELECT's with greater than 255 columns in SelectList will result in DBERR 3008 using ISQL.

Cause:
ISQL calls SQL to fetch 255 columns whenever the SelectList contains more than 255 columns. ISQL has a bug on the DESCRIBE call to SQL.

KPR #: 4700883796 Product: HP SQL/300 79725A 00.00

One-line description:
HPDBDAEMON needs to be more robust in its error handling

Problem:
There are many cases where the daemon needs to shut down the environment, or just simply, report an error condition.

Under normal circumstances, the daemon's messages that go to the console are cryptic, unfriendly and not very communicative.

Cause:
The only inhibitor to doing anything about this SR was the fact that the daemon, while it does read the message catalog, does

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KPR #: 4700886796 **CONTINUED**

not go the extra inch of putting in parameter substitution as well. If it did, it would report the error code (at least) along with the message text.

We will fix this problem for ux 8.0 definitely. By the way, the problem is for the 800 and 300 alike.

Fix information:

Fix is UX specific. We hope to put in a fix quickly for the daemon. There is also an overall issue of friendly error trapping for DBCORE as a whole. That is a subject for a future SR.

Version numbers will be supplied as soon as they are known.

KPR #: 4700892612 Product: HP SQL/300 79725A 01.00

One-line description:

Preprocessing "C" application with LANG=korean gives DBERRs 10908/11014.

Cause:

The cause of this problem is resulted from passing the incorrect parameter value to 'NLJUDGE' in the Preprocessor command line handling routine 'SOPTGETU' (a common routine for all Preprocessors).

The 'SOPTGETU' routine uses "sizeof()" to pass the length of the data buffer without cleaning up the buffer first. Since the buffer is declared as a packed array the "sizeof" always passes the fixed size of the buffer (from its declaration) which does not reflect the true length of the data string in the buffer. 'NLJUDGE' interprets the 'garbage' data in the buffer and returns this error!

The reason why it does not happen to LANG=japanese is that 'maybe' the 'garbage' data can be interpreted by 'japanese' collated table but not by 'korean' collated table.

Fix information:

The problem has been fixed by replacing the 'sizeof' with 'strlen' to pass the data buffer length to 'NLJUDGE' in 'SOPTGETU' module.

The fix has been submitted to Rel7.0 Pass30 (patch) release.

KPR #: 4700901470 Product: HP SQL/300 79725A 01.01

One-line description:

C preprocessor appears to cause byte alignment problems with application

Cause:

The problem is caused from the inconsistency of the alignment schemes between C (and Pascal) Preprocessor(s) and C (and Pascal) compiler(s) for building the host variable format nodes on the UX300 system.

Fix information:

KPR #: 4700901470 **CONTINUED**

The fix is done by modifying the C (and Pascal) Preprocessor(s)'s alignment handling modules to following the relevant UX300 compiler alignment algorithm.

The fix has been submitted into rel7.0 pass34.

KPR #: 4700902122 Product: HP SQL/300 79725A 01.01

One-line description:

ALLBASE is not catching the error when Long Field output device too long

Problem:

ALLBASE is not generating the correct error message when Long Field file path length is too long (DBERR 3204). Instead the Long Field file access error (DBERR 3205) is reported.

Cause:

ALLBASE is not checking the length of the output path before coping the name to a local variable. If the path length is greater than 46 bytes, it will overwrite another local variable, which is used to check if the output path is for file access. Because of the overwritten, the check condition will always fail and check on path length will not be performed. It will then go ahead and will try to open the file, which doesn't exist. This will return the error indicating the file access fail.

Fix information:

This SR will be fixed on 300 in Release 8.0

Duplicate Service Requests: 4700902130

KPR #: 5000260547 Product: HP SQL/300 79725A 01.00

One-line description:

wrong user used by sql for authorization after an su was done

Problem:

Wrong user used by SQL for authorization after an "su" was done.

Cause:

The authorization routines were using 'userid' from the system library to check who the current user is. 'userid' actually tries to check who they logged on as.

Fix information:

The authorization routines now use 'getuid'.

Signed off 05/23/89 in release X00.00

KPR #: 4700685560 Product: HP SQL/300 C APG 79725-90014 88.02

One-line description:
Compilation statement specifies libraries in incorrect order.

Problem:
In chapter 1 the order of libraries in the compilation statement is incorrect.

Fix information:
The order of libraries will be changed to:
"cc.source.c -lsql -lheap2 -lportnls -lpc".
This change will be made in the next edition for release 7.0,
where the information for the Series 800 and Series 300 can
be found. The part number is 36217-90014.

Duplicate Service Requests: 1650079939 1650079954 4700503664

KPR #: 4700879403 Product: HPC++ COMMON HPCPLUSPLUSA 00.01

One-line description:
Can't compile with <starbase.c.h>. Undefined c_draw2d(), c_move2d().

Problem:
.problem

The new header file for starbase under HP-UX 7.0 seems to have a
simple bug.
Can't compile with <starbase.c.h>. Undefined c_draw2d(), c_move2d().

KPR #: 4700879411 Product: HPC++ COMMON HPCPLUSPLUSA 00.00

One-line description:
sys/ns_ipc.h file not converted for HP C++.

Problem:
The <sys/ns_ipc.h> include file not converted for HP C++

Signed off 04/12/90 in release A02.00

KPR #: 4700880393 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
unnamed bit fields are initialized, even in ANSI mode (+a1).

Problem:

According to the ANSI Draft Standard for the C language (December 7,
1988, Section 3.5.7), unnamed structure members are ignored during
initialization. Cfront, even in its ANSI mode (+a1), ignores this
and applies initializers to fields, one-for-one, unnamed or not.

KPR #: 4700880401 Product: HPC++ COMMON HPCPLUSPLUSA 00.04

One-line description:
DNTT_LABEL's address field not set correctly

Temporary solution:

This problem is not severe : the only manifestation is that one
cannot set a breakpoint on the said label by using the "b #label"
syntax. A simple workaround is to set the breakpoint using the
line number that the label appears on: "b 4".

KPR #: 4700880419 Product: HPC++ COMMON HPCPLUSPLUSA 00.04

One-line description:
passing function pointer as parameter causes internal error

Problem:
passing function pointer as parameter causes internal error
3058 : bus error

KPR #: 4700880427 Product: HPC++ COMMON HPCPLUSPLUSA 00.00

One-line description:
no include file for net_aton or net_ntoa(3N)

Problem:
There is no include file for net_aton or net_ntoa(3N).

Signed off 04/12/90 in release A02.00

KPR #: 4700883066 Product: HPC++ COMMON HPCPLUSPLUSA 00.04

One-line description:
cfront creates this pointer for static member function

KPR #: 4700884270 Product: HPC++ COMMON HPCPLUSPLUSA 00.00

One-line description:
merger is zapping out SRCFILE entries that should not be zapped

Problem:
Functions with #includes inside their bodies cannot be debugged properly, because the debug merger tool discards the source file information inside the function bodies.

KPR #: 4700885749 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
Compile time for HPC++ is 2-3 times slower than bare cfront

Problem:
The compile time for HPCC is 2 to 3 times that of a straight port of the AT&T translator.

KPR #: 4700886598 Product: HPC++ COMMON HPCPLUSPLUSA 01.00

One-line description:
Need to build libc.ansi.a and add this file to the file set

Signed off 04/11/90 in release A02.00

KPR #: 4700887976 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
CC +a1 generates bad C code -- cc fails

Problem:
The problem is that in +a1 (ANSI C) mode, cfront tries to put out full prototypes for external functions declarations, *including parameter names* (when it has no need to, and indeed should not).

Sometimes, it ends up putting out some garbage characters instead of the name, which causes C syntax errors.

Temporary solution:

Don't use +a1 mode in your application if you get this problem.

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KPR #: 4700887976 **CONTINUED**

Fix information:
Fixed in HP C++ A.02.10.

KPR #: 4700887992 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
HP C++ P.G. has wrong info for linking with F77 libraries

KPR #: 4700888925 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
CC doesn't cast 0 to an array type

Problem:
CC automatically casts the constant 0 to the NULL pointer of the appropriate type for assignments and function calls where the argument is a pointer. However, if the argument is an array, CC fails to make the cast.

Fix information:
Will be fixed in AT&T cfront 2.1

KPR #: 4700889386 Product: HPC++ COMMON HPCPLUSPLUSA 00.00

One-line description:
cfront occasionally does not type-cast act. arg to float formal parm.

Problem:
Occasionally, cfront does not emit a cast to float for an actual parameter to a float formal parameter.

KPR #: 4700889394 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
Struct member w/in struct not declared in generated C code.

Problem:
Struct member within struct results in member not being declared in the generated C struct.
No complaints issue from cfront, but C compiler complains about the missing struct member.

KPR #: 4700889683 Product: HPC++ COMMON HPCPLUSPLUSA 00.00

One-line description:
yacc++ generates warning messages about code in yaccpar.

KPR #: 4700890368 Product: HPC++ COMMON HPCPLUSPLUSA 00.00

One-line description:
Cfront core dumps in making a long signature name

Problem:
Cfront aborts when the mangled name that it creates for a function

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KPR #: 4700890368 **CONTINUED**

would be greater than 255 characters long.

Temporary solution:
Shorten the name of the function, and/or the class of which it is a member.

KPR #: 4700890376 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Cfront will selectively ignore the extern "C" keyword.

Problem:

The extern "C" option is interpreted differently depending on the placement of the option. If it precedes a class definition that includes the function as a "friend", the name will not be mangled. If the name comes after, the name will be mangled.

KPR #: 4700890392 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
hp C++ translator alpha 1 produces bad math, see example file

Problem:
The inliner in cfront seems to have a problem handling FP constants coded using a cast operator.

Temporary solution:

After including <math.h>, undef and redefine MAXFLOAT as follows:

```
#include <math.h>
#undef MAXFLOAT
#define MAXFLOAT 3.40282346538528860e+38
```

KPR #: 4700890830 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Pointers to members are not always assignable to "zero".

Problem:

Description:
Cfront does not allow constant expressions that evaluate to zero to be assigned to pointer to members which is in violation of section 4.8 of the reference manual.

/* Executable example: */

```
// In section 4.8, constant expressions that evaluate to 0 should be
// assignable to pointers to members. In the following program, only
// the literal 0 is accepted
```

const int zero = 0;

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KPR #: 4700890830 **CONTINUED**

```
class C {
public:
    int a;
    unsigned func1() { return 0; }
};
```

int C::*pf = &C::a;

```
main () {
    pf = 0;
    pf = 1 - 1;
    pf = zero;
}
```

/*****

* Current result:
* compile time errors.

* Expected result:

* Successful compilation with the pointer being initialized
* to zero.

*****/

KPR #: 4700890848 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Cfront allows a const object to not be passed to non const member func.

Problem:

Description:
Cfront does not catch a call to a non-const function using a constant object. Essentially the example from the language reference manual found in section 9.3.1.

/* Executable example: */

```
// A member function that is non-const has a call from it from an
// object that is declared const, which is an error. By the way,
// this example is essentially the same as the one in 9.3.1 of the
// reference manual
```

```
struct s {
    int a;
    int f() const;
    int g() { return a++; }
};
```

int s::f() const { return a; }

```
void foo() {
    s x;
    const s y;
    x.f();
    x.g();
    y.f();
}
```

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KPR #: 4700890848 **CONTINUED**

```

    }
    y.g(); // error.
}

```

```

/*****
 * Current result:
 * successful compile
 * Expected result:
 * compile time error messages
 * *****/

```

KPR #: 4700891754 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Bad debug info if only the enum tag from a class is referenced

Duplicate Service Requests: 4700892000

KPR #: 4700891762 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Forward struct references in inner scopes cause problems

Problem:
If an incomplete type is referenced in an inner scope, and another incomplete type is declared in an outer scope, then the reference to the inner incomplete type causes problems when emitting debug information.

```

///
somefunc() {
    struct S* ptr = 0;
}

```

```

//If this line is commented, things will work
//This causes a new incomplete type to be declared
struct S;
///

```

If the above example is compiled with debug on, you will get the following message:

warning: Debug info may be corrupt. (1 unresolved reference)

KPR #: 4700891770 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront generated names are visible in the debugger

Problem:
The C++ translator works by translating your C++ sources to C, and these translated sources are compiled by the C compiler. During the translation process, the C++ translator will occasionally introduce new

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KPR #: 4700891770 **CONTINUED**

function, variables, and types; the identifier names of such items will always begin with two underscores (that is, "_"). These identifiers are visible in the debugger, since they may occasionally be meaningful to the sophisticated user; however, most users can safely ignore them.

KPR #: 4700891788 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront does not complain about anon member and local var with same name

Problem:
No message is issued when declaring a field of an anonymous union with the same name as a variable defined in the same scope.

KPR #: 4700891796 Product: HPC++ COMMON HPCPLUSPLUSA 00.00

One-line description:
scope of names redeclared in inner scope sometimes leads to surprise

Problem:
The scope of variable names in the debugger mirrors the scope of variables in the emitted C code, instead of the scope of variables in the original C++ code. This may occasionally confuse the user.

For example:

```

void somefunc() {
    int j;
    j = 1; //Point A
    int i;
    i = 1;
}

```

In the emitted C code, both "i" and "j" are declared at the beginning of the function; consequently in the debugger, if you are at "Point A", the variable i is visible. If you attempt to print "i" at this point, you will get the local "i", even though there may be a global "i" visible at this point.

Temporary solution:

There is a simple workaround for *this* problem: simply

```

p ::k

```

and you'll get the global.

KPR #: 4700891804 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
warning, not error, given for item declared as both signed and unsigned

Problem:
cfront does not give an error if both "signed" and "unsigned" are specified on the same type.

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KPR #: 4700891838 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront doesn't support floats-as-floats in translator mode

Problem:
The literal 5.000001 is converted to double by the C compiler, capturing full precision - or at least better than assigning 5.000001 to a float at run time and then converting it to double.

KPR #: 4700891846 Product: HPC++ COMMON HPCPLUSPLUSA 00.01

One-line description:
cannot find function symbols for nameless class

Problem:
If a class has no tag, the debug information produced for the class may be incorrect. This happens because the name mangling algorithm used by the code that emits debug information does not match the name mangling algorithm used by cfront when it emits C code.

Temporary solution:
Avoid the use of classes which have no tags. If you have such a class, make up a dummy tag name for the class.

KPR #: 4700891853 Product: HPC++ COMMON HPCPLUSPLUSA 00.02

One-line description:
names are given to nameless classes in debug information

Problem:
If a user has a class without a tag, cfront will make up a tag name (e.g. __C1). This tag name will be visible in the debugger when doing stack tracebacks and so on. This may confuse the user.

KPR #: 4700891879 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
Should be error to init const pointer to non-const data with const data

Problem:
Should be error to init const pointer to non-const data with const data. Lipman pg. 38 states that it is a compile-time error to assign the address of a symbolic constant to a pointer.

KPR #: 4700891887 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
demangler does not handle leading _ correctly on s300s

Problem:
The demangler still does not handle s300 symbols correctly. The s300 linker always generates an extra leading "_" character. The demangler MUST strip this before trying to demangle anything.

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KPR #: 4700891887 **CONTINUED**

KPR #: 4700891895 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Corrections to Programmers Guide

Problem:
Chapter 4 of the HP C++ Programmers Guide says:

"On the HP9000 Series 800, when calling FORTRAN 77 or Pascal routines, one must include the appropriate runtime libraries by adding the arguments

-lcl

to the CC command line."

This doesn't quite work -- you really have to link three libraries:

-lcl -lnlsstubs -lismstubs

KPR #: 4700891903 Product: HPC++ COMMON HPCPLUSPLUSA 00.04

One-line description:
Can't view inline function using v command to xdb++

Problem:
The only functions allowed by the view command in the debugger are functions for which code was generated. If a function was inlined, no code is generated for it, and consequently such functions cannot be viewed by using the "v" command.

KPR #: 4700891911 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Incorrect debug info emitted for local static cfront temps

Problem:
Under certain circumstances, cfront creates temporary variables which start with the name "F". The debug information for such variables may be incorrect. Use caution when printing out the values of such variables in the debugger.

KPR #: 4700891929 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
parms which are arrays of arrays have bad debug info (compiler bug too)

Problem:
If you have an array of arrays, cfront transforms the type so that it looks like a pointer to the array element. Thus, the user will see the transformed type if this type is ever printed out by the debugger (for example, if the user does "p obj\t" where "obj" is an object which is an array of arrays).

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KPR #: 4700891937 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
The C code emitted by HP C++ contains many extra #line directives

Problem:
We have modified cfront so that it emits #line directives before every C statement; this was done to make sure that the debugger would have the correct line number for all statements. These extra #line directives slow down the C compiler a bit. In a future release, we may attempt to reduce the number of #line directives emitted, without losing any debugger functionality.

KPR #: 4700891945 Product: HPC++ COMMON HPCPLUSPLUSA 00.05

One-line description:
assignment to data member overwrites virtual base class pointer

KPR #: 4700891952 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
Compiling with +d and -g is ~60% slower than just -g

Problem:
When the translator is given the +d option, it will take some extra time because many extra function bodies will be emitted when inlining is turned off; this also means that the -g option will take longer, since we need to emit debug information for all of these extra functions.

KPR #: 4700891960 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
xldb++ gets array parameters wrong

KPR #: 4700891978 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
CC +w: cc warning for virtual function call

Fix information:
Fixed in A.02.00 version. CC does not pass +w to C compiler anymore and thus avoids spurious warnings from cc.

Signed off 04/11/90 in release A02.00

KPR #: 4700891986 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
CC +al: cc warning for function ptr assignment

Problem:
Using the ANSI option gets warnings for an assignment between a pointer to a function that takes a structure-pointer argument and an element of that structure that is the same function type.

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KPR #: 4700892018 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
Format of CC error/warning messages is confusing

Problem:
The format of the messages given out by cfront is confusing because of the location of the message number.

KPR #: 4700892984 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront does not emit definition for static data member of local class

Problem:
main()
{
 class A
 {
 public:
 static int y;
 int i;
 }
 } a;
 a.y = 1;
 a.i = 5;
}

In the above test case, cfront does not emit the definition of local static data members.

KPR #: 4700892992 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
function call returns wrong value

Problem:
Member function of derived class returns wrong value for field of base class whose visibility was modified via access declaration.

KPR #: 4700893008 Product: HPC++ COMMON HPCPLUSPLUSA 00.01

One-line description:
Initialization not required for const non-external struct

Problem:
Cfront allows declaring an uninitialized non-external const of a struct type either at file or function scope

KPR #: 4700893016 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
pointer to the virtual table is being copied when it should not be

Problem:

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KPR #: 4700893016 **CONTINUED**

The pointer to the virtual table is being copied when it should not be.

KPR #: 4700893057 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
typedef of unsigned long within func does not work.

Problem:
typedef of unsigned long within func does not work.

KPR #: 4700893065 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
Destructor cannot delete pointer to class returned by inline func.

Problem:

Class B's destructor unable to delete pointer to Class A when that pointer was returned by an inline member function and when Class A has a virtual destructor.

KPR #: 4700893073 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront crashes when calling static function inherited from virtual base

Problem:

1. in find_in_base in find.c if the base is found to be virtual, they set the il_field in the expr node to 1.
2. Later on in call_fct in expr.c, they check the value of el, and el is in the same union as il. Since they find el to be non zero, they try to dereference it and of course you get a segmentation violation because the pointer value is 1.

KPR #: 4700893081 Product: HPC++ COMMON HPCPLUSPLUSA 00.02

One-line description:
array of class objects containing const enum causes bus error

Problem:
array of class objects containing const enum causes internal error: bus error

KPR #: 4700893099 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront puts out incorrect warnings about integral type compatibility.

Problem:

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KPR #: 4700893099 **CONTINUED**

Cfront puts out incorrect messages about type compatibility between integral types.

KPR #: 4700893107 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
The debugger does not understand the void data type

Problem:
If you use a void type (e.g. a function returning void), the debugger will incorrectly assume that it is "long".

KPR #: 4700893131 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
Help for xdb++ does not contain any of the new C++ functionality

Problem:
The new C++ functionality is NOT included in the xdb++ help facility. Commands like bi, bpo, bpc are not listed or formats \k and \K are missing. This functionality SHOULD be included in xdb help.

KPR #: 4700893156 Product: HPC++ COMMON HPCPLUSPLUSA 00.01

One-line description:
overloading new works inconsistently for arrays (see related file).

Problem:
The global new is called when the array foo[5] is initialized.

KPR #: 4700893180 Product: HPC++ COMMON HPCPLUSPLUSA 00.00

One-line description:
xdb gets Internal Error when try to search for pattern in yyparse

Problem:
xdb gets Internal Error (IES04) when try to search for pattern using the "/" command.

KPR #: 4700893206 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
CC crashes (null pointer deref) on "<unaryop> <operator int>"

Problem:
CC is confused by unary operators and is trying to deref the lhs type pointer.

KPR #: 4700893487 Product: HPC++ COMMON HPCPLUSPLUSA 00.01

One-line description:
cfront allows user to define body for pure virtual function!

Problem:

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KPR #: 47008933487 **CONTINUED**

CC doesn't give a compile time error when a body is defined for a pure virtual function.

Cause:
CC doesn't give a compile time error when a body is defined for a pure virtual function.

KPR #: 47008933495 Product: HPC++ COMMON HPCPLUSPLUSA 00.02

One-line description:
error for given for legal use of overloading

KPR #: 47008933503 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Wide string literals are unimplemented

KPR #: 47008933511 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Enum's aren't scoped properly

KPR #: 47008933529 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Cfront allows duplicate declarations of enum's

KPR #: 47008933537 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Incorrect handling of redefinition of classes in blocks

KPR #: 47008933545 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Cfront does not catch calls to main, violation of sec. 3.4 in ref manual

Problem:
// Section 3.4 in the reference manual states that main () is not
// callable from any portion of the program. Cfront does not tag this
// as an error

```
main () {
    main();
}
```

Cause:
Cfront does not detect a call of main within main itself. This problem has not been diagnosed further.

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KPR #: 47008933552 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Cfront does not correctly mangle member funcs. for tagless classes

Problem:
Description:
Tagless structs, unions, and classes that have a member function that is the same name as a non-member function are linked together.
// Unions, classes or structs that are tagless that have a member
// function that has the same as a non-member function are linked
// together.

```
#include <stdio.h>
char foo (char* c) {
    printf("the value of c is %s\n",c);
    return *c;
};
```

```
#ifdef try_union
union {
#endif
```

```
#ifdef try_struct
struct{
#else
class {
public:
#endif
```

```
char* var;
char foo(char* c);
} U;
```

```
main () {
    U.foo("X");
}
```

```
/* Current result:
* Mangled function names that link to non member functions with the
* same name
* Expected result:
* "Correctly" mangled names that will cause the linker to report an
* error
*
* *****/
```

KPR #: 47008933560 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
uninitialized reference member gets error

Problem:

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KPR #: 4700893560 **CONTINUED**

an declaration of a reference which is uninitialized should be allowed if the reference is a class member within a class declaration.

KPR #: 4700893578 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
reference to type void should get error

Problem:
Function of type 'reference to type void' is accepted by cfront. It should get an error.

KPR #: 4700893586 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
redefinition of enum tag name in inner scope not allowed

Problem:
an enum tag name is defined at file scope. Attempting to redefine it (again as an enum tag) within a function elicits the error message:

```
error: enum <tag_name> defined twice
```

KPR #: 4700893610 Product: HPC++ COMMON HPCPLUSPLUSA 00.01

One-line description:
CC gets internal error on abstract virtual operator declaration.

Problem:
CC gets internal error on abstract virtual operator declaration.

KPR #: 4700893628 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront using +d option works incorrectly.

Problem:
When using the '+d' option which prevents the inlining of inline functions, bad C code is generated.

Temporary solution:
Do not use '+d'. The program will give the same results when functions are inlined.

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KPR #: 4700893636 Product: HPC++ COMMON HPCPLUSPLUSA 00.01

One-line description:
pure virtual functions incorrectly require definition

Problem:
CC requires to define an implementation for the destructor 'Expression, even though it is a pure virtual function.

Temporary solution:
The workaround for this bug is simple: define the destructor for the abstract base class, Expression::~Expression().

```
class Expression
{
public:
    virtual ~Expression() {};
    virtual void print() = 0;
    virtual int value() = 0;
};
```

Expression will still be an abstract class because the other member functions are pure.

As for the warning to which you object, cfront considers the declaration of a destructor for a class with no constructor to be a possible programming error and thus warns. If you don't want to see the warning, then declare a constructor.

KPR #: 4700893651 Product: HPC++ COMMON HPCPLUSPLUSA 00.02

One-line description:
incorrect warning given for overloading based on enum vs. int.

Problem:
When two overloaded functions are differentiated in their parameter list by an int versus an enum, an incorrect warning message is displayed at compile time specifying that the enum was converted to an int, implying that the function with the int is called. However, the code that is generated is correct and the function that specifies an enum is called.

Cause:
When two overloaded functions are differentiated in their parameter list by an int versus an enum, an incorrect warning message is displayed at compile time specifying that the enum was converted to an int, implying that the function with the int is called. However, the code that is generated is correct and the function that specifies an enum is called.

Fix information:
Fixed in HP C++ A.02.10.

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KPR #: 4700893659 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
CC doesn't find virtual abstract function in base class

Problem:
Calling an abstract virtual function using an explicit
class-qualified call (Class::virtfunc) is not flagged as an
error by cfront.

KPR #: 4700894113 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront does not complain about anon member and local var with same name

Problem:
cfront occasionally allows an anonymous union member to have the
same name as a local variable.

```
main()
{
    union {
        int yell;
        char *yodel;
    };
    yell
    char yodel = 'A'; //This should not be allowed
}
```

KPR #: 4700894121 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront does not handle static anonymous unions properly

Problem:
cfront generates bad code for static anonymous union as data member
of a class.

KPR #: 4700894139 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Variable with the same name as a label is not emitted.

Problem:
If a variable and label in the same scope have the same name, cfront
may incorrectly ignore the variable declaration when it is emitting
C code.

Cause:
// The variable "label" will not be emitted. This is caused by the
// emission routines not checking the n_list field for the variable
// declaration.

```
void foo ()
{
```

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KPR #: 4700894139 **CONTINUED**

```
label:
int label;

label = 1;
goto label;
}
```

KPR #: 4700894147 Product: HPC++ COMMON HPCPLUSPLUSA 00.02

One-line description:
redefinition of default argument not caught as error by cfront

Problem:
CC doesn't give a compile time error when a default argument for a
function is redeclared.

Cause:
CC doesn't give a compile time error when a default argument for a
function is redeclared.

KPR #: 4700894154 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Invalid code generation for pointers to static members.

Problem:
Normal pointers to members contain the offset + 1 from the base of
an object. When the code generation for a pointer to a static member
is done, the value of the address of the static member is used
since it is not attached to any object. When an access is made,
the address of the object is added to the address of the static
member decremented by 1 which will produce unpredictable results.

KPR #: 4700894162 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
link-time unsat for derived class ptbl when using +e0/+e1 facility

Problem:
When using the +e0/+e1 options, you may sometimes encounter unresolved
symbols at link time. These symbols will start with the string "_ptbl".

Temporary solution:

Do not use the +e0/+e1 options. cfront 2.0 does a much better job
than 1.2 in determining when to emit virtual tables. The only time
cfront obeys the +e0/+e1 option is if you have a class in which all
the virtual functions are declared inline. Avoid having such classes;
add a dummy non inlined virtual function to such classes, and provide a
dummy body for this function.

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KPR #: 4700894188 Product: HPC++ COMMON HPCPLUSPLUSA 00.02

One-line description:
like-named classes in two different functions disallow ptr to member

KPR #: 4700894196 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
CC gives warning when deleting &reference

Problem:
CC seems to issue a blanket warning for statements of the form
"delete &(expression)". This warning may catch some programmer
errors, but it also flags perfectly reasonable uses of delete.

KPR #: 4700894204 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
spurious error for initialized array parms

Problem:
If a function is declared with a default initializer for an array
parameter, a later definition of the function gets a spurious error
"bad initializer for array".

KPR #: 4700894212 Product: HPC++ COMMON HPCPLUSPLUSA 00.02

One-line description:
string++ class name (String) conflicts with X11 typedef.

Problem:
The string++ class in the code libs product is named String.
X11 typedef's String to "char*". This means that these two can't
be used together.

KPR #: 4700894535 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
xdb may print the incorrect value for members of a virtual base class

Problem:
If a virtual base class is inherited directly and indirectly, xdb may
print incorrect values when printing the directly inherited base
class.

Fix information:
This has been fixed in the A.02.10 release.

KPR #: 4700894543 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Problems when debugging inlined function compiled with -g1

Problem:
The user may encounter problems when debugging the bodies
of inlined functions under certain circumstances. The

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KPR #: 4700894543 **CONTINUED**

problem appears when both of these conditions are true:

1. cfront produces an out of line copy of an inline function.
This may happen because +d is on, or because the function
could not be inlined, or because the user took the address
of the function.
2. None of the object files contain a full class definition
for the class containing the member function. This may happen
for various reasons:
 - a. The user used -g1 when compiling the file which resulted in
the out of line function body, and did not use -g (or -g1) on
any of the files containing the non inline member functions.
 - b. The user used -g1 when compiling the file which resulted in
the out of line function body, and did not provide bodies for
any of the non inline member functions.

When the problem does occur, you will notice the following behaviour
in the debugger:

1. The member function will appear to be global when you type "lp".
2. When you are in the member function, the "l" command will result
in the debugger getting a segmentation violation.

KPR #: 4700894550 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:

debugger thinks that two static functions with same name are overloaded

Problem:
Define two global static functions with the same name, in different
files. When you attempt to set a breakpoint on one of them the
debugger will give you a menu because it thinks the function is
overloaded; however, there is only one function on the menu.

KPR #: 4700897009 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:

allows declaration of uninitialized const structs, classes, & unions

Problem:
Defining an uninitialized non-external const struct, class, or
union using a previously declared tag name is incorrectly allowed
(cf. AT&T C++ 2.0 Reference Manual, Section 7.1.6).

KPR #: 4700897017 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:

member function declared volatile treated same as const

Problem:
A volatile member function, which changes a private member,
elicits the message:

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KPR #: 4700897017 **CONTINUED**

error : increment of member <class>::<member> of const struct.

KPR #: 4700898460 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Initialization of union unimplementedProblem:
Initialization of union using brace-enclosed initializer is not supported.

KPR #: 4700898478 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
line numbers not monotonic for inlined constructor

KPR #: 4700898486 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
debugger fails to perform object identification in some casesProblem:
If you have a pointer to a base class, and at runtime this pointer is assigned a pointer to a derived class, in most cases the debugger is able to determine that the pointer points to the derived class. The debugger is able to determine this by examining which virtual function table the object is using; usually, a derived class will use a virtual function table that is different from the virtual function table used by the base class. For classes which have static virtual function tables (because all the virtual functions have inline definitions), the debugger is unable to make this determination correctly in all cases, and will occasionally think we have a pointer to a base class object even though we are actually pointing to a derived class object.

KPR #: 4700898494 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
xdb++ may give an internal error if you use a pointer to a data memberProblem:
If "C" is a class with a data member "x", and "obj" is an object of type C, then the following expression will cause the debugger to give an internal error: p obj.*(&c::x)

KPR #: 4700898734 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Typedef altered by cfront that invalidates future declarations

KPR #: 4700899393 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
Duplicate symbol __exit in /lib/libp/libc.a with CC -pProblem:
Using CC -p fails on both the 300 and the 800, because we did not ship a special "mcrto.o" that is required to avoid a name collision between it and the C++ library.Temporary solution:
The workaround is to use "gprof" (the -G option) instead of "prof". We have implemented full support for gprof.

KPR #: 4700899401 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Initialization of AUTO struct (using +a1) gets bus error.Problem:
/*
An automatic struct (but not an array, the other type of aggregate) which is initialized in ANSI mode (using +a1), causes cfront to emit

CC: "foo.c", line 6: internal error 3058: bus error (or something nasty like that)

The command used was CC +a1 -c foo.c
*/void foo()
{
 struct St {
 int i, j;
 } s = { 100, 200 };
}

KPR #: 4700900092 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
confusion occurs when a class name is typedef'ed inside a class.Problem:
cfront behaves very oddly when the class name is typedef'ed and the type alias is used inside of the class.

KPR #: 4700900100 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Stream operator<< occasionally appends garbage to output string.Problem:
The stream library causes to print out one or more garbage characters at the end of the line.

KPR #: 4700900118 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
cfront does not catch access violation when accessed mem is overloaded.

Problem:
Cfront gets lost when checking access restrictions on overloaded member functions, and as a result, allows incorrect accesses to protected or private member functions.

Fix information:
This has been fixed in the next release (HP C++ A.02.10).

KPR #: 4700906289 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
<string.h> is missing prototype for "strerror()".

Problem:
HPC++ <string.h> header file seems to be missing the prototype for strerror().

KPR #: 4700906339 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Misleading message when a break occurs within {} in a switch statement.

KPR #: 4700906347 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Generated code jumps to address 0 instead of to virtual function.

KPR #: 4700908491 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
not implemented 2012: general initializer in initializer list

Problem:
Cfront is not able to handle addresses of globals as initializer values for other global variables.

Fix information:
Fixed in A.02.10.

KPR #: 4700908509 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Bad C code generated with +d for class declared within a class

KPR #: 4700908517 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
garbled error message 1227 and internal error 3058 and bus error

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KPR #: 4700908525 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Internal error 3058: bus error for simple syntax error

KPR #: 4700908533 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
not implemented 2020: cannot expand inline function with static var

KPR #: 4700908541 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
no "arg not used" warning for array args

KPR #: 4700908558 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
internal error 3111: can't find vptr for some nested class definition

KPR #: 4700908566 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
unclear constructor-argument error messages for normal errors

KPR #: 4700908574 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
phrase "struct A" can't be used in a type cast in struct A definition

KPR #: 4700908582 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
xdb++ -- empty classes show a member "_w1"

KPR #: 4700916536 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
prototype for "select" in sys/time.h is wrong.

KPR #: 4700916585 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Missing function prototype for XInitImageFuncPtrs (libX11.a).

KPR #: 4700916627 Product: HPC++ COMMON HPCPLUSPLUSA 02.00

One-line description:
Bad function prototype for statfs: 2nd param should be struct statfs *.

KPR #: 4700917161 Product: HPC++ COMMON HPCPLUSPLUSA 00.03

One-line description:
Math.h lacks decls for abs(int) and abs(double), incompatible with ATT

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KPR #: 4700902734 Product: HPC++ S300

B1691A

02.00

One-line description:
<stdarg> macros don't work on the 300 if the last parm is a reference.

KPR #: 5000151415 Product: LANG MNL 300/800 98597-XXXX 00.00

One-line description:
Better description of FORTRAN and dynamic memory

Problem:
Using the example on page 48 of Fortran 77 Programmer's Guide Supplement and adding a second memory allocation will cause undefined externals in the load (ld) if the second variable is not referred to in the body of the program. For example, if you duplicate lines 14, 15, and 16 with different variable names and also duplicate the corresponding lines in the 'C' code, you will get undefined externals when loading if you don't also duplicate line 28 with the appropriate variable name. In other words, if you declare these dynamic variables you have to use them.

Fix information:
May be fixed in a future release.

KPR #: 4700905216 Product: OV NM SERVER 300 DEV 36985A

01.00

One-line description:
sieve manager is not deleting obsolete sieves

Problem:
The event sieve manager does not delete obsolete local sieves since it doesn't find out when a local destination address in a sieve is no longer valid.

If an application creates a sieve containing its local destination address, and then exits without deleting the sieve, the sieve becomes obsolete. However since the event sieve manager gets no errors when it sends unconfirmed events to that sieve, it does not know that the sieve is obsolete so it doesn't delete it.

The sieve will continue to exist until it is explicitly deleted, or until the event sieve manager is restarted.

Fix information:
This defect will be fixed in release A.02.00.

KPR #: 4000023770 Product: PROGRAMMERS DOC SET 98794A

02.00

Keywords: DOCUMENTATION

One-line description:
cursor not correctly documented

Problem:
HPUX Concepts and Tutorials manual, 97089-90030
In the "Curses and Terminfo" section of Volume 2 of the C&T (Programming Environment) the use of a structure named "curscr" is described on page 2. This is not correct. The curscr structure is not used by the curses library and routines.

Fix information:
Will be fixed in a future release.

KPR #: 4000090860 Product: PROGRAMMERS DOC SET 98794A 06.02

One-line description:
Sys Admin Manual says do gettools with floppy 8, should be floppy 3

Problem:
The System Administrators Manual, in the section that talks about Floppy update (page 334) says to use floppy 8 when doing the update. It should say floppy 3.

Temporary solution:
The S300 6.2 System Administrators Manual, in the section that talks about Floppy update (page 334) says to use floppy 8 when doing the update. It should be changed to read, use floppy 3.

Fix information:
Has been fixed at the 6.5 release.
Signed off 01/26/90 in release A06.50

KPR #: 4000091702 Product: PROGRAMMERS DOC SET 98794A 06.02

Keywords: DOCUMENTATION

One-line description:
system admin manual misname device bit

Problem:
On page 164, the manual says that direct connect terminals should be named ttydxx and dialin ports should be named ttyxx. On page 166, the manual reverses these names.

Temporary solution:
The workaround is to use the names consistently. The /etc/reconfig command defaults to ttydxx for a direct connect and ttyxx for a dialin. Just remember to use the names in this manner.

KPR #: 4000091702 **CONTINUED**

Fix information:
Was fixed at the 7.0 release.

Signed off 12/18/89 in release A07.00

KPR #: 4000094342 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:
Missing acleintrystart(3C) link to strtocall(3C) manual entry (oops)

Problem:
acleintrystart not linked in on-line manual files at 7.0.

Temporary solution:
Link strtocall.3c to acleintrysta.3c in directory /usr/man/man3.2 on 7.0 systems and Series 300 6.5 systems.

Fix information:
Has been fixed for release 8.0. However, Access Control Lists may be deleted at 8.0 or later based on industry trends.

KPR #: 4000094615 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:
truncate(2) still contains an invalid BUGS section;

Problem:
truncate(2) manpage contains invalid BUGS section.

Temporary solution:
Ignore BUGS section in truncate(2) manual entry. Kernel does not behave as indicated.

Fix information:
Has been fixed at 7.0.

Signed off 12/18/89 in release A07.00

KPR #: 4000094623 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:
open(2), close(2) (and others?) don't mention behavior w.r.t. sockets

Problem:
open(2), close(2), and others do not describe behavior with respect to sockets.

Cause:
Enhancement request. Sockets treated same as files.

Fix information:
No fix planned at present time.

KPR #: 4000094631 Product: PROGRAMMERS DOC SET 98794A 06.06

One-line description:
Missing asterisks in sigsetops(3C) manual entry in SYNOPSIS

Problem:
Asterisk missing in source file for sigsetops(3C) manual entry.

Temporary solution:
Add asterisk in front of set in lines that resemble the following in SYNOPSIS:

sigset_t *set;

Fix information:
Has been fixed at Release 7.0.

Signed off 12/18/89 in release A07.00

KPR #: 4000094656 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:
typo, affect should be effect

Problem:
Typo.

Temporary solution:
Change affect to effect.

Fix information:
Fixed at 7.0.

Signed off 12/18/89 in release A07.00

KPR #: 4000094664 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:
Man page: "b" command shows wrong syntax for [count] (should be [\count])

Problem:
Missing \ in various locations in xdb(1) manual entry.

Temporary solution:
Change [count] to [\count] for b, bb, bx, bu, bt, and ba commands.

Fix information:
Will be fixed in a future release.

KPR #: 4000094938 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:
iomap man page example contains /n instead of \n

Problem:
Typo. / should be \.

KPR #: 4000094938 **CONTINUED**

Temporary solution:

Change /n to \n in example

Fix information:

Fixed at 7.0.

Signed off 10/26/89 in release 207.00

KPR #: 4000095190 Product: PROGRAMMERS DOC SET 98794A 07.00

One-line description:

man pages on AXE are missing, and don't work anyway

Problem:

User on preliminary system with known defects. Ignore.

Temporary solution:

None needed. Problem version no longer exists (preliminary software).

Fix information:

Will be fixed in a future release.

KPR #: 4000096115 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:

mount(1M) manpage example options not in same order as SYNOPSIS

Problem:

Inconsistency of option positions between SYNOPSIS and examples.

Temporary solution:

None needed. Options position-independent.

Fix information:

Options are position independent. Manual changed at 7.0 to clearly state this fact.

Signed off 12/18/89 in release A07.00

KPR #: 4000098293 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:

group(4) should be linked to loggingroup(4)

Problem:

loggingroup missing from NAME line in group(4) manpage, also no link to loggingroup(4).

Temporary solution:

None available. Fixed for future releases.

Fix information:

Added loggingroup to group(4) manpage and added link to database.

Signed off 01/26/90 in release A06.50

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KPR #: 4000098301 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:
setmask(2) Manual entry refers to signal(5) Does not exist!

Problem:

6.5 brick signal(2) entry has SEE ALSO to signal(5) which does not exist.

Temporary solution:

No workaround. Get 7.0 HP-UX Reference.

Fix information:

Added signal(5) at 7.0.

Signed off 01/26/90 in release A07.00

KPR #: 4000098327 Product: PROGRAMMERS DOC SET 98794A 00.00

One-line description:

Documenting "lpadmin -g" as setting print job priority.

Problem:

-gpriority description does not explain what priority (job or fence) is being set.

Temporary solution:

-gpriority sets job priority as nearly as can be determined at the present time. HP-UX Reference will be updated to correct this problem at next printing after Release 7.0 edition.

Fix information:

Manpage updated for 8.0 to show correct information.

KPR #: 4000098343 Product: PROGRAMMERS DOC SET 98794A 06.05

One-line description:

Doesn't document "-a" option

Problem:

-a option missing on lifcp(1) manpage prior to 7.0.

Temporary solution:

None available. Replace HP-UX Reference with 7.0 edition (09000-90013).

Fix information:

-a option description added at 7.0 in HP-UX Reference lifcp(1) entry.

Signed off 01/26/90 in release A07.00

KPR #: 5000170381 Product: PROGRAMMERS DOC SET 98794A 01.00

Keywords: DOCUMENTATION

One-line description:

Add terminfo for the 35741 interfaced with the 98543A

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KPR #: 5000170381 **CONTINUED**

Problem:
Problem with documentation in the Series 300 Configuration Reference manual, and the HP-UX Concepts and Tutorials, VOL 7, Facilities for Series 200, 300, and 500. The model 35741 monitor with the 98543A interface as a terminal on a series 300 computer has no recommendation for what terminfo entry to use for HP-UX. The documentation should reflect this in the manuals stated above. The terminfo entry that was used successfully is hp9836. Please add this to the documentation.

Fix information:
May be fixed in a future release.

KPR #: 5000420307 Product: PROGRAMMERS DOC SET 98794A 06.02

Keywords: FIND

One-line description:
The find(1) manual entry does not warn about Context-Dependent Files.

Problem:
find(1) manual entry does not state that the -hidden option is required to detect context-dependent files for backups, so files are not copied to the backup device.

Temporary solution:
Prior to 7.0 release, -hidden option must be specified with find(1) to ensure proper backup of CDFs.

Fix information:
-hidden option added at 7.0 and documented in HP-UX Reference.

Signed off 12/18/89 in release A07.00

KPR #: 5000430165 Product: PROGRAMMERS DOC SET 98794A 06.02

Keywords: STARBASE

One-line description:
the README FIRST for 6.02 incorrectly documents Pdriver

Problem:
The documentation in the readme for axe 6.02 swapless for users tells the load all filesets. This is incorrect in that the PDRIVER set should not be installed as per the SE readme for axe.

Temporary solution:
The workaround is to not load all filesets. Instead, Load all filesets except the PDRIVER fileset.

Fix information:
The fix is to use the information for the workaround. Future releases of HP-UX had

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KPR #: 5000430165 **CONTINUED**

(or have) their own, unique README documents.

KPR #: 5000461467 Product: PROGRAMMERS DOC SET 98794A 06.02

Keywords: DOCUMENTATION

One-line description:
Explain the difference between symbolic links and hard links.

Problem:
In(1) manual entry does not clearly explain the difference between hard links and symbolic links.

Temporary solution:
The following text was placed in the HP-UX Reference for 7.0 to explain symbolic links:

-s Cause ln to create symbolic links instead of the usual hard links. A symbolic link contains the name of the file to which it is linked. The referenced file is used when an open(2) operation is performed on the link. A stat(2) on a symbolic link returns the linked-to file; an lstat(2) must be performed to obtain information about the link. A readlink(2) call can be used to read the contents of the symbolic link. Symbolic links can span file systems and can refer to directories.

Fix information:
Will be fixed in a future release.

KPR #: 5000461822 Product: PROGRAMMERS DOC SET 98794A 06.00

Keywords: DOCUMENTATION

One-line description:
System admin. manual documents checklist wrong.

Problem:
I looked at both the manuals and found that both mention about backup frequency first and pass number as second (in the text) but in the example is where the discrepancy lies. The example in sys admin manual has pass# first and bckup_frequency second, therefore the discrepancy. Whereas, the Section 4 of HP-UX reference manual is consistent with text and its example i.e. the bckup_frequency first and pass_number second. Customers look at the example in both the manuals to set up their /etc/checklist and get confused. The /etc/checklist at the RC 300 system tallies with the section 4 of Ref. manual.

Temporary solution:
In the 7.0 release, the wording for /etc/checklist was changed to agree with the wording in the HP-UX

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KPR #: 5000461822 **CONTINUED**

Reference manual entry for checklist.

Fix information:

Was fixed in the 7.0 release.

Signed off 10/26/89 in release 207.00

KPR #: 5000462242 Product: PROGRAMMERS DOC SET 98794A 06.05

Keywords: DOCUMENTATION

One-line description:

Incorrect command for copying from one root disk to another.

Problem:

The HP-UX commands:

```
cd/
find . 'ls|grep v disc' -print|cpio -pdm /disc
on page 6-28 of the HP-UX Systems Administrator's Manual Vol. 1 part
number 98594-90060 revision 6.5 and page 433 of the HP-UX Systems
Administrator's Manual Vol. 1 part number 98597-90060 revision 6.2 are
incorrect for copying the contents of one root disk to another. This
command will not copy any linked files or device files due to the
omissions of the l and x options. A correct command to copy all files
is: find 'lsx- l|grep -v disc' -print|cpio -pdlumx /disc
```

Temporary solution:

The erroneous lines were removed. To copy files
from one disk to another, use the following command:

```
cd /
find . -hidden -depth -print | cpio -pdlumx /target
```

Fix information:

Fix occurred in the 7.0 release.

Signed off 12/18/89 in release A07.00

KPR #: 5000467480 Product: PROGRAMMERS DOC SET 98794A 06.02

Keywords: DOCUMENTATION

One-line description:

Peripheral guide recommends wrong cable for use with built-in RS232

Problem:

The peripheral installation guide says to use
the 92221P cable with the laserjet. If you use this
cable on the built in RS-232 port you will find that
the casing is too big to fit.

- PROGRAMMERS DOC SET -

Known Problem Reports as of 07/23/90

KPR #: 5000467480 **CONTINUED**

Temporary solution:
You need to use the 98561-61604 cable in order to
clear the sides of the connector.

Fix information:

Will be fixed in a future release.

KPR #: 5000475186 Product: PROGRAMMERS DOC SET 98794A 03.01

Keywords: DOCUMENTATION

One-line description:

Change man page entry and HP-UX Reference Vol2 Sec5 from /usr/lib/term

Problem:

term(5) manpage refers to /usr/lib/term. Should be /usr/lib/terminfo.

Temporary solution:

None. Updated in next release after 7.0. Minor inconvenience.

Fix information:

Fixed for 8.0.

KPR #: 5000484360 Product: PROGRAMMERS DOC SET 98794A 06.05

Keywords: CHECKLIST

One-line description:

Sys Admin Manual contains incorrect example of editing checklist file.

Problem:

/etc/checklist example for swap device incorrect:

The example for /etc/checklist in the 6.5 system admin. manual volume 1
(98594-90060) on page 4-77 for the swap device is incorrect. All the
fields need to be included even if not used, so that swapon -a in
/etc/rc can operate.

Temporary solution:

The workaround for /etc/checklist, for example, on
a 370 file server with five 340 diskless cnodes is to have
an entry such as the following one:

```
/dev/dsk/lso /users2 swap default 3 0 # 2nd swap
```

Also, the checklist(4) man page shows a correct example
for adding a swap device.

Fix information:

The manual for the 7.0 release has new examples that
were taken from a working system.

Signed off 10/12/89 in release A07.00

- PROGRAMMERS DOC SET -

KPR #: 5000489187 Product: PROGRAMMERS DOC SET 98794A

06.05

Keywords: CU

One-line description:

the suspend feature of cu is not completely documented

Problem:

Documentation unclear: Return required after lines beginning with tilde.

Temporary solution:

Press Return after all cu input lines that start with tilde, including the "suspend sequence. While not specifically stated, this is implied in the descriptive text since the section in question deals with "lines that begin with a tilde", and all lines in the UNIX/HP-UX environment must be terminated by a new-line character (Return key).

Fix information:

Added clarification to cu(1) entry for 8.0.

KPR #: 9999004824 Product: RJE/300

31447A 04.01

Keywords: OS

One-line description:

Problem W/RJE -Configured for 2780 emulation s/be no space compression.

Problem:

Question missing for Set Options script.

Cause:

Incorrect data type.

Fix information:

Fixed in 10/06/80 version.

KPR #: 9999004825 Product: RJE/300 31447A 04.01

Keywords: RJE300

One-line description:

First 15 bytes of message not transmitted.

Problem:

Send message loses text.

Cause:

Only the last char string was kept. This is a problem in the praise routine.

Fix information:

Fixed in future version.

KPR #: 9999004826 Product: RJE/300 31447A 04.01

Keywords: RJE300

One-line description:

Unreasonable errors occur with Edit Commands softkey.

Problem:

Edit commands creates the temporary file on the wrong pack.

Cause:

Files on volumes other than the current one should not be allowed.

Fix information:

Fixed in 10/06/80 version.

KPR #: 9999004848 Product: RJE/300 31447A 04.01

Keywords: RJE300

One-line description:

Executive command receive error.

Problem:

KPR #: 9999004848 **CONTINUED**

RUI closes line.

Cause:
Improper processing of RUI.
Fix information:
Fixed in 10/06/80 version.

KPR #: 9999004961 Product: RJE/300 31447A 04.01

Keywords: RJE300

One-line description:
The S in SELECT SOFTKEY truncated from message window.

Problem:
When softkey is pushed, the "s" in "Select a softkey" is command.

Cause:
TMCLEAR was not called. TMWPUTN was called with a blank line.

Fix information:
A call to TMCLEAR was added.

KPR #: 9999004997 Product: RJE/300 31447A 04.01

Keywords: RJE300

One-line description:
Error 'Automatic Receive, on Receive file invalid'.

Problem:
Receive softkey is invalid. RJE thinks auto receive is on.

Cause:
Also receive was turned off.

KPR #: 9999005048 Product: RJE/300 31447A 05.02

Keywords: RJE300

One-line description:
Command file from workstation causes crash after SIGNON.

Problem:
Posting a TAM listen request twice caused a crash.

Fix information:
Check for a double post, don't post a previously posted request. Fix to QA 11/13/80.

KPR #: 9999005097 Product: RJE/300 31447A

Keywords: RJE300

One-line description:
Crash during file transfer from 250 to 300.

Problem:
CP'KILL'TIMER problem patch to QA 11/13/80.

KPR #: 9999005225 Product: RJE/300 31447A 05.02

Keywords: COMMANDS

One-line description:
RJE USING "commandfile" does not work.

Problem:
RUN using "CMDFILE" does not work, RJE aborts.

Cause:
RJE tried to clear a non existant window.

Fix information:
Window is now cleared only when RJE is in interactive mode.

KPR #: 9999005230 Product: RJE/300 31447A 05.02

Keywords: SF18

One-line description:
RJE Using "commandfile" causes crash.

Problem:
RJE using "Commandfile" causes *Crash* TCB=14EA CST=150 Deltap=156
Bounds Violation Code=18 Parm=44 #-1 #20236 #88 [TM=12, Deltap=6NBB
of task RJECON]

KPR #: 9999005359 Product: RJE/300 31447A 04.01

Keywords: COMM

One-line description:
System crash while doing a send message

KPR #: 9999005459 Product: RJE/300 31447A 05.03

Keywords: COMM

One-line description:
Crash when receive null block from IBM

Problem:
2780-IBM. Receive null block from IBM and
CRASH TCB=13FA CST=150 DELTAP=1120
DSEG bounds violation CODE=1C PARMS=44 #-11 #-8767 #0

KPR #: 4000027565 Product: RJE/300

50967A

01.00

One-line description:

If the background process cannot access rje_joblog, user waits 90 sec.

Problem:

If rje_init cannot open rje_joblog, the user is notified immediately that rje cannot open rje_joblog, however, it may be 30-90 seconds before the "link terminated abnormally" message appears to stdout. During this time the link is down and idle. Users should not attempt to initiate any new processes during this time, but just wait 30-90 sec.

Fix information:

May be corrected in a future release.

KPR #: 4000084970 Product: RJE/300

50967A

01.00

One-line description:

RJE/300 does not work with long file names

Problem:

rje_send will hang for any long path, not just paths containing long file names. The longest path that may be safely used is 24 characters. (RD)

Fix information:

The path is copied into a data structure which was too small.

This will be fixed in RJE 2.0. The data structure will be expanded to accommodate paths of 1024 bytes. (RD)

Signed off 06/21/90 in release A02.00

KPR #: 4000093039 Product: RJE/300

50967A

01.00

One-line description:

Binary files of certain lengths sent incorrectly using ~ control lines

Problem:

Some binary files may be transmitted incorrectly if the length of the file falls within certain ranges and the binary file is sent using a control line beginning with ~. For example, if the input to rje_send is ~!-b cat datafile and datafile is 2700 bytes long, then the problem will occur.

The file sizes that are affected are:

Hexadecimal XXXX0AXX: (2560-2015, 68096-68531, 133632-133887, etc)
Hexadecimal XX0AXXXX: (655360-720895, 17432576-17498111, etc)
Hexadecimal 0AXXXXXX: (167772160-184549375)

Temporary solution:

The problem can be avoided by using rje_send -b instead of using the ~ control lines within the rje_send input file.

Fix information:

KPR #: 4000093039 **CONTINUED**

The problem was caused by using the fgets() library function to read the binary file length within the queue file.

fgets() terminates on linefeed characters (Hex 0A). Thus, some of the length bytes may be ignored if one of the bytes in the length happens to be a linefeed.

The problem has been corrected by using fread() instead of fgets() to read the file length. The fix will be incorporated in the next release.

Signed off 06/21/90 in release A02.00

KPR #: 4000093492 Product: RJE/300

50967A

01.00

One-line description:

rje_bg or rje_router can hang writing job notification to PTY terminal

Problem:

rje_bg and rje_router may hang under some circumstances. This may happen when these programs try to write to a terminal to inform a user of some change in a job's status. This happens only if the user is logged in to HP-UX on a PTY port (i.e. via the LAN) and the same user has previously been logged in to a lower numbered PTY port and no other user has logged in to that lower numbered PTY port.

Here is an example:

1. rjeuser logs in via /dev/pty/ttyp4
2. rjeuser logs in a second time via /dev/pty/ttyp5
3. rjeuser logs out from the session on ttyp4
4. rjeuser sends a job with rje_send from ttyp5
5. the job has a usr card that causes rje to attempt to write some notification message to rjeuser's terminal.

Temporary solution:

Here are some workarounds for this problem:

1. Avoid choosing notification options in the usr card that write to the terminal.
2. Avoid logging in via a pty port.
3. Avoid logging in more than once at any one time.
4. If one of these programs does hang, it is possible to "unhang" it by opening the master pty file that it is waiting on. To determine which port is involved, use who -d to get a list of "dead" ports. Any ports that were last used by the same rje user who submitted the job should be opened.

For the example given in the submitter text, the following line would "unhang" the rje software.
cat </dev/ptym/ptyp4

Fix information:

May be fixed in a future release.

KPR #: 1650040139 Product: S300 GENERAL HPUX 98680B

05.20

Keywords: CSH

One-line description:
Csh(1) documentation in error about some features.

Problem:
THE BUILT IN CSH-COMMAND 'alloc' DOES NOT WORK.
GIVES 'command not found' MESSAGE WHEN INVOKED.
THE COMMANDS 'bye' AND 'gd' BOTH EXISTS IN CSH
AS BUILT-INS, BUT ARE NOT DOCUMENTED!!
COMMAND 'history -h' WORKS BUT IS NOT DOCUMENTED!!

Cause:
This defect report contains several problems:

1. The alloc built-in does not work.
2. The history -h built-in works but is not documented.
3. The gd built-in works but is not documented.
4. The bye built-in works but is not documented.

The alloc built-in does not work because it is only compiled into csh when a 'Debug' compiler directive is used to build the shell. This compiler directive is not used to build release bits for csh.

Temporary solution:

The csh manual page has been changed for release 8.0 to include documentation about the 'gd' and 'bye' built-ins, along with a related built-in, 'rd'. The 'gd' and 'rd' built-ins are synonyms for 'pushd' and 'popd', respectively, and 'bye' is similar in function to 'logout' (the only difference being that it works for sessions which are not login shells). These built-ins are documented with their standard counterparts ('pushd', 'popd', and 'logout'), but their use is discouraged since they are not part of the standard BSD csh and may not be supported in future releases.

The 'history -h' built-in was documented in the manual page for release 7.0.

The 'alloc' built-in is only present if a 'DEBUG' compiler directive is used to build csh. This is not done for released versions of csh. Therefore this built-in will not be supplied in the HP-UX version of csh.

Fix information:

The csh manual page has been changed for release 8.0 to include documentation about the 'gd' and 'bye' built-ins, along with a related built-in, 'rd'. The 'gd' and 'rd' built-ins are synonyms for 'pushd' and 'popd', respectively, and 'bye' is similar in function to 'logout' (the only difference being that it works for sessions which are not login shells). These built-ins are documented with their standard counterparts ('pushd', 'popd', and 'logout'), but their use is discouraged since they are not part of the standard Berkeley csh and may not be supported in future releases.

The 'history -h' built-in was documented in the manual page for

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Known Problem Reports as of 07/23/90

KPR #: 1650040139 **CONTINUED**

release 7.0.

KPR #: 1650040147 Product: S300 GENERAL HPUX 98680B 06.02

Keywords: MAN

One-line description:
"man -t" gives core dump.

Problem:
IF YOU PRESS 'man -t' ACCIDENTLY THIS GIVES YOU SEGMENTATION
FAULT, CORE DUMPED!!

Fix information:
May be fixed in a future release.

KPR #: 1650041160 Product: S300 GENERAL HPUX 98680B 05.21

Keywords: XARGS

One-line description:
Xargs(1) of more(1) doesn't work as documented.

Problem:
The xargs command does not function consistently. For example you

get different responses for the two following uses of the command.
execute
cd /usr/include

then # ls *.h | xargs -i -p cat {} - this works as expected.

or # ls *.h | xargs -i -p more {} - this does a more of all
of the args, and then a
more of the last arg.

Cause:

The default action for more is to first read standard input and
then process file arguments. In the case of:

```
ls *.h | xargs -i -p more {}
```

both more and xargs share the same standard input. Hence, when
a file is selected by xargs, more reads the rest of the standard
input (i.e. the output from ls *.h) and then processes the selected
file. After returning, xargs finds that it has no more input, so it
exits.

Fix information:
Fixed in HP-UX release 8.0.

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KPR #: 1650050294 Product: S300 GENERAL HPUX 98680B 06.00

Keywords: SH

One-line description:

Report of shell script that results in unexpected logout when run

Problem:

The customer sent me the following program (script). With that program he compiles c programs redirection to a file. And the file will be printed to the screen. While the program runs type one or more backspaces after the small program is finished you will automatically logged out.

Contents of the program : cc -c -g \$1.c 2>errfile
cat errfile|more

Fix information:

This defect will be fixed in HP-UX 9.0.

KPR #: 1650057828 Product: S300 GENERAL HPUX 98680B 06.00

Keywords: TBL

One-line description:

"tbl" doesn't produce proper looking boxes on laser jet printer

Problem:

Steven is using the following command:-
tbl -Tlj testinroff -Tlj -ms |lp -nroff
On the following file called test:-

```
.TS
allbox center;
c c c.
Number Name Crossings
1 James 3
2 Dave 4
3 Alex 5
4 Murdo 8
.TE
```

Using 330 HPUX Rev6 (Diskless) with a Laserjet II. The output table has vertical lines that are jagged, that is they drift to the right then left by one or two pixels.

Fix information:

Current nroff(1) does not have a capability for making complete boxes.

KPR #: 1650074385 Product: S300 GENERAL HPUX 98680B 02.01

One-line description:

lint false errors on missing library entries mkdir(2) and rename(2)

Problem:

The problem was that the mkdir(2) and rename(2) entries were missing from the lint library.

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KPR #: 1650074385 **CONTINUED**

Cause:

The cause is missing lint library entries.

Fix information:

Was fixed in HP-UX 7.0.

KPR #: 1650082529 Product: S300 GENERAL HPUX 98680B 06.02

Keywords: LINT

One-line description:

lint gives unexpected error messages

Problem:

The code was not bracketed with #ifdef KERNEL as it should have been.

Cause:

Header file should have been #ifdef properly. POSIX changes have addressed many similar problems.

Temporary solution:

The fixed version of types.h will be shipped with 7.0, but people can delete the problem line from their local copies.

Fix information:

Code was fixed for 7.0 as part of POSIX cleanup.

KPR #: 1650088997 Product: S300 GENERAL HPUX 98680B 06.02

Keywords: FDB

One-line description:

FDB does not handle array parameters correctly

KPR #: 1650093328 Product: S300 GENERAL HPUX 98680B 05.02

Keywords: VI

One-line description:

PROBLEM WITH UNDO FOR GLOBAL CHANGES IN MACROS IN VI

Problem:

When the command like ":!,\$g/xx/s/xxx/yyy/" is used as a macro in vi(1), the first execution of it succeeds, but if 'u' command is used and after that the macro is used again, only two top lines are changed and the error "Can't undo in global commands" occurs.

Cause:

In executing the macro which causes the large change like "g/xx/s/xxx/yyy/", vi(1) reconstructs the state for the undo operation by using the undo facility in executing "s" command. But basically, the undo facility is inhibited in the global command, so the error occurs. And the state to undo "g" command is saved first of all then the reconstruction in executing "s" command is unnecessary. Before the

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KPR #: 1650093328 **CONTINUED**

commands related to the macro (in this case, 'u' command) are used, the state is set the special value, so "g/xx/s/xxx/yyy/" command works well unexpectedly.

Fix information:

Will be fixed in the 8.0 release of HP-UX for the Series 300 and 800.

KPR #: 1650093351 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: UPDATE

One-line description:

/ETC/MAGIC ALWAYS GETS OVERWRITTEN DURING AN UPDATE

Problem:

When a system is updated, a tailored /etc/magic is overwritten, since the update media directly stores the new magic file in /etc/magic. This causes customer modifications to /etc/magic to be lost.

02/28/90

Cause:

The /etc/magic file is supplied on the update tape as /etc/magic instead of /etc/newconfig/magic.

02/28/90

Temporary solution:

A workaround to this problem is to save your modified /etc/magic file in a temporary place before updating to the 7.0 release. After the update, merge your changes into /etc/magic.

This workaround will not be necessary when updating to 8.0, the 8.0 update will not overwrite a customized /etc/magic file.

02/28/90

Fix information:

Fixed in the 8.0 release of HP-UX on the Series 300 and 800.

02/28/90

KPR #: 1650100172 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: CU

One-line description:

there is no environment passed when using '~!' and cu

Problem:

The users environment was being completely destroyed by cu.

Cause:

An error in the design for cleaning the environment of setuid programs caused all environment variables to be reset

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KPR #: 1650100172 **CONTINUED**

Temporary solution:
none

Fix information:

Code was added to preserve the users environment at program entry and restore it after the uid's are reset in the fork routine.

KPR #: 1650100230 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: COL

One-line description:

tbl | nroff | col gives box with staggered line on Laserjet

Problem:

/usr/lib/lprpp filter attempts to shift char2 in the sequence "<char1>\b<char2>" in an attempt to get the laserjet to embolden text. tbl|nroff produces table box character sequences like "\b|" to form intersecting lines. lprpp shifts the '|', like it would a second, in "\b_", to attempt emboldening. On lines with "\b|" the vertical bar does not line up with those on lines with just "|".

Cause:

lprpp was not designed with tbl output in mind.

Temporary solution:

Use "tbl file_name | nroff -Tlp | col -b | lp".

Fix information:

Fixed in the 8.0 release. Revision 66.1.

The nroff command should be used with the -Tlp option in this application.

KPR #: 1650101246 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: ACCOUNTING

One-line description:

acctcom(lm) shows time one hour earlier than -e or -s option specified

Problem:

The problem was that acctcom was incorrectly handling times passed as parameters. It was subtracting an hour when it should not and thus the output was wrong when selecting records based upon time.

Cause:

The problem was a line of code changed at level 62.1 where the hour specifier was decremented by one before multiplying it by 3600 in order to convert it to seconds.

Fix information:

This is fixed in 8.0.

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KPR #: 1650102194 Product: S300 GENERAL HPUX 98680B 03.01

One-line description:
Special handling needed for SR #1650102194. See labtext.

KPR #: 1650111666 Product: S300 GENERAL HPUX 98680B 06.02

Keywords: REMSH TCIO

One-line description:
discless 300 using remsh and tcio to rename files on remote tape fails

KPR #: 4000003756 Product: S300 GENERAL HPUX 98680B 02.00

Keywords: LOGIN

One-line description:
People may appear logged in when they are not.Problem:
Login only logs user IN to the logging files /etc/utmp and /usr/adm/wtmp. Getty is the only way to log someone OUT. If you let a user log in but then do not start another getty for their line when they log out, they continue to be "logged in".Cause:
This problem was caused by a design flaw in /etc/init as derived from the original ATT System V.2 code.

When /etc/init handles the SIGCLD signal as the result of a death of one of its children, /etc/init records the fact that the child is dead along with its exist status in an internal data structure. However, it doesn't update the /etc/utmp entry for that child until it wishes to spawn another child. For "respawn" entries, this ends up being immediately, but if the child from a "once" entry terminates, the /etc/utmp entry for that child isn't updated until the next time /etc/init spawns a child (which might not occur for a long time).

This may be demonstrated if you have two getty lines, one of them marked as "once", the other as "respawn".

t1:2:once :/etc/getty -h /dev/tty01 H
t2:2:respawn:/etc/getty -h /dev/tty02 H

If you log in as user1 on tty01 and user2 on tty02, a "who -u" will show both users logged in. If you then exit from tty01 (i.e. user1 logs out), "who -u" will still show both user1 and user2 logged in when, in fact, user1 isn't really on the system.

However, if user2 then logs out, init will go to respawn the getty on tty02, which will cause *both* the "t1" and "t2" entries in /etc/utmp to be updated. A "who -u" run at this point will show that neither user1 nor user2 are logged in.

03/16/90

Temporary solution:

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KPR #: 4000003756 **CONTINUED**

Manage inittab carefully; never bring down the system until all users have logged out and have "login:" prompts from getty on their terminals.

Fix information:
Fixed in the 7.0 release of HP-UX on the Series 300 and 800.

03/16/90

KPR #: 4000003830 Product: S300 GENERAL HPUX 98680B 02.00

Keywords: LOGIN PASSWD

One-line description:
Very long fields in /etc/passwd mess up login.Problem:
Very long fields in /etc/passwd (see the manual page for particulars) cause unpredictable things to happen to the login command.Cause:
The login command does not limit the field lengths to the size of the space allocated, so other variables are overrun. This is a System III featureTemporary solution:
Avoid overly-long /etc/passwd fields.Fix information:
Fixed in HP-UX release 8.0

KPR #: 4000017020 Product: S300 GENERAL HPUX 98680B 04.00

Keywords: NROFF

One-line description:
NROFF does not support any printers except the obsolete 2631B.Problem:
NROFF does not support any HP printer, except for the obsolete 2631B. Clever printers like the 2934A/2686A etc are supported by the op. sys., but not by relevant utilities like nroff.Fix information:
Will fix in a future release.

KPR #: 4000019570 Product: S300 GENERAL HPUX 98680B 00.00

Keywords: DOCUMENTATION DD

One-line description:
Problem with dd with seek and mag tapeProblem:
The manual entry for the "dd" command lists a "seek" option. (It

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KPR #: 4000019570 **CONTINUED**

allows skipping "n" records into the OUTPUT file before writing.
 The "seek" option doesn't have any effect when the output file is a 9-track mag tape.
 This is the way the code is written. We need to update the reference page to explain that the "seek" option has no effect on mag tape.
 (Perhaps an example with explanation would be sufficient.)
 See dd(1) and lseek(2), and the source code for "dd".

Temporary solution:
 Added following into the dd(1) manual page.

before modify:
 seek=n Skip n blocks from beginning of output file before copying.

 after modify:
 seek=n Skip n blocks from beginning of output file before copying;
 this option is ignored on a raw magnetic tape device. See
 mt(1) for information about operations on raw magnetic tape
 devices.

Fix information:
 Will be fixed in the 8.0 release of HP-UX.

KPR #: 4000092437 Product: S300 GENERAL HPUX 98680B 05.20

Keywords: LIBM C

One-line description:
 Math routine, pow, does not handle overflow correctly.

Problem:
 The pow() function doesn't handle overflow properly when given a
 small value:

```
pow(3.3e-308, 2)
```

returns: 1.79e+308
 When multiplication of 3.3e-308 by itself produces 0.0.

Fix information:
 Has been fixed for HPUX 8.0.

KPR #: 4000094060 Product: S300 GENERAL HPUX 98680B 06.05

One-line description:
 Invalid form in recognize_array: During reg alloc because of common sub.

Problem:
 The compiler aborts with the following message:

```
C1 internal error in <routine>: invalid form in recognize_array
```

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KPR #: 4000094060 **CONTINUED**

Temporary solution:

This problem occurs when one type of optimization, specifically common subexpression elimination, creates a state in the internal data structure that a later phase of the optimizer is unable to handle.

The workaround is to use a special option to the optimizer that disables the first optimization:

```
-Wg,-d
```

Include this option in the cc command line:

```
cc -O example.c -Wg,-d
```

This will turn off common subexpression elimination for the entire file example.c. Another option is to turn off optimizations for the routine that was indicated in the error message:

```
cc -O example.c -Wg,-padd_pn
```

(The routine name is add_pn. -paddpn tells the optimizer to 'pass' the input through unoptimized for routine addpn.)

Fix information:

Will be fixed for HP-UX release 8.0.

KPR #: 4000096487 Product: S300 GENERAL HPUX 98680B 06.05

One-line description:

cc -O chokes on the appended code.

Problem:

This defect is due to the fact that the code generator was loading pointer differences which were being used to index into an array, into address registers rather than data registers as would have been appropriate. The pointer type of the "index" operand was incorrectly leading codegen to load an address (.vs. data) register.

Temporary solution:

This defect is due to the fact that the code generator was loading pointer differences which were being used to index into an array, into address registers rather than data registers as would have been appropriate. The pointer type of the "index" operand was incorrectly leading codegen to load an address (.vs. data) register.

To work around this problem, use a temporary variable of appropriate scalar type (e.g. int or long). Pre-assign the pointer type index expression to the temporary scalar, and use the temporary in the original index operation which was encountering the defect.

Fix information:

This defect was corrected in the S300 HP-UX 8.0 C compiler release.

- S300 GENERAL HPUX -

KPR #: 4000097428 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: LP

One-line description:
"lost connection" with remote spooling makes file lpd.log fill up disk

Problem:
When rlpdaemon loses the connection to remote machine, rlpdaemon tries to fill a disk with a lot of error message "lost connection".

Cause:
When there is something wrong with the connection between rlp(1M) and rlpdaemon(1M), rlpdaemon(1M) wouldn't stop writing error message to a logfile.

Fix information:
Will be fixed in the release 8.0

KPR #: 4000097451 Product: S300 GENERAL HPUX 98680B 06.05

One-line description:
C1 internal error in "function": illegal leaf node 49

Problem:
Compiler error message when the tree node table needs to be expanded twice.

Cause:
The tree node table is being incorrectly coalesced.

Temporary solution:
Use the +Ne option to increase the size of the initial tree node array. For example, cc +Ne,1000 file.c

Fix information:
Fixed for a release in early 1990.

KPR #: 4000097865 Product: S300 GENERAL HPUX 98680B 03.00

One-line description:
"type clash" error points to wrong production

Problem:
In the following error message:

fatal error: default action causes potential type clash, line 1053
the production in line 1053 was NOT the one at fault. In fact, the error was in the PREVIOUS production, which is not always very nearby because of intervening action lines.

Cause:

The scanner looks ahead to determine the next token in a rule or

KPR #: 4000097865 **CONTINUED**

find the end of the rule. By the time it is known that the rule is ended and then the rule is processed the scanner has moved to the first token beyond the rule, and that is what the lineno reflects.

Fix information:

The "fix" was to reword the message to say
"possible type clash in the preceding production"

Hopefully, this will direct the user to look from this line number backward.

This change is in release 8.0.

KPR #: 4700774497 Product: S300 GENERAL HPUX 98680B 03.01

One-line description:
tset does not use is[123] to initialize (see terminfo(4))

Problem:
tset should do:

```
is1
is2
set tabs with tbc and hts
cat if
run iprog
is3
```

it only sets tabs and cats if.

Cause:

The tset command has never used is[1-3], rs[1-3] or iprog. Though these are clearly documented in terminfo(4) as part of the expected means of initializing the terminal.

Temporary solution:

The workaround is to put the initialization string in 'is2', which is currently emitted after tabsetting and before 'if' is cat'ed.

Fix information:

The behavior has been changed to follow that described in terminfo(4).
Fixed in 8.0.

KPR #: 4700788505 Product: S300 GENERAL HPUX 98680B 03.01

One-line description:

Intermittent symbolic links created during support tape initialization

KPR #: 4700879924 Product: S300 GENERAL HPUX 98680B

06.05

One-line description:
no table entry for op REG (unoptimized - submitted by W. Underwood)

Problem:
The following program will not compile.

```
struct qnode { struct qnode *qu_next,*qu_last; };
int f(pl) register int *pi;
{
    register int *a,*b,*c,*d;
    register struct qnode *qf;
    (qf->qu_next = qf->qu_last)->qu_next = qf->qu_next;
}
```

The compiler aborts with the message "no table entry for op REG"

Cause:

There are a number of possible reasons why a program will not compile and will abort with the message "no table entry for op REG". There is no way to know if it is a duplicate of this problem without trying a fixed compiler.

Fix information:

Fixed in the 8.0 release of HP-UX for the Series 300.

KPR #: 4700901041 Product: S300 GENERAL HPUX 98680B

06.05

One-line description:
'diff -e ... | ed -' results in 2-byte file ("?\n") -- unusual case

Problem:

With two versions of a particular file, the following sequence results in incorrect output:

```
(diff -e oldfile newfile; echo '1,$p') | ed - oldfile >result
```

The "result" file contains only "?\n".

I've attempted to isolate the problem, but I cannot. Deleting the top portion OR the lower portion of "oldfile" and "newfile" produces correct results (for those portions). The problem persists when a line is added to the top and/or bottom of either file.

I've also tried replacing "ed" with "ex", to no avail.

I use the above command sequence frequently. It fails on only on a few files.

I can provide a 131-Kbyte shar file on request which contains the files needed to reproduce the problem.

Because this procedure is the cornerstone of our repeated integration with external partners, we would very much appreciate a work-around or an identification of the what causes the problem so that we can look for and avoid it in the future.

- S300 GENERAL HPUX -

KPR #: 4700901041 **CONTINUED**

Fix information:
Fixed in release 8.0.

KPR #: 5000121756 Product: S300 GENERAL HPUX 98680B

03.11

Keywords: PASCAL BOOTSYS

One-line description:
Special handling required for SR #5000121756. See labtext.

Problem:

S 0200

860312

When powering up a 310 with a built in video board and display compatibility interface, boot up BASIC 4.0 off the SRM. Following, if you execute a sysboot command to load the VT100 (98791B with 200 series environment and 300 series vt100 Prog) to use with the compatibility interface, the cursor did not appear on the CRT after the vt100 came up. The same problem exists when HPLPLUS is re-boot with sysboot. A fix is to enable compatibility interface with CONTROL CRT,21:1 (or remove CRTB from BASIC 4.0) and then do a sysboot. The cursor then appears as it does if vt100 is booted in powerup with it.

Temporary solution:

Enable compatibility interface with CONTROL CRT,21:1 (or remove CRTB from BASIC 4.0) and then do a sysboot from BASIC. Alternatively, reboot by cycling power.

KPR #: 5000170340 Product: S300 GENERAL HPUX 98680B

05.01

Keywords: SCCS

One-line description:

Problems with sccs and files larger than 3.35 megabytes.

Problem:

SCCS will not accept a file larger than 3.35 megabytes.

admin -ifile s.file

goes fine. But

admin -h

returns the message "corrupted file".

get -e s.file

returns the message "format error at line 3 (co4)"

Cause:

SCCS can only handle file up to 99999 lines in length.

- S300 GENERAL HPUX -

KPR #: 5000170340 **CONTINUED**

Temporary solution:

run wc -l on files to be administered by SCCS and assure that they start out well below 99999 lines so they can grow without exceeding that limit. The csplit(1) command may be used on program files to split them into reasonable chunks.

Fix information:

May be fixed in a future release.

KPR #: 5000192682 Product: S300 GENERAL HPUX 98680B 05.14

Keywords: NROFF

One-line description:

Problems using table for matting and interactive text together

Problem:

TRYING TO USE BOTH TABLE FORMATTING AND INTERACTIVE TEXT WITH THE MM MACROS USING mm -t FILENAME. USING THIS COMMAND THE TABLES CONTAINED IN THE FILE ARE PROCESSED, BUT THE INTERACTIVE PORTION OF THE FILE (.RD COMMANDS) ARE NOT PROCESSED. THE WORKAROUND IS TO DO A TBL FILENAME > FILEOUT.A AND THEN NROFF FILEOUT > FILEDONE.

Fix information:

May be fixed in a future release.

KPR #: 5000198770 Product: S300 GENERAL HPUX 98680B 05.15

Keywords: VI

One-line description:

Problem with terminfo and vi using 2392Sa

Problem:

Using a 2392a HP terminal in ANSI mode with TERM=vt100, s300hpux. When in the vi(1) editor, having problems with the up and down arrow keys. If the down arrow was held down to scroll down several screens, the escape on the key escape sequence would not always be read. The down arrow in terminfo vt100 is kcucl1=EOA

When the escape was not seen while scrolling the "0" would act as a usual vi(1) open line above cursor command. This would happen intermittently.

Fix information:

May be fixed in a future release.

KPR #: 5000216697 Product: S300 GENERAL HPUX 98680B 05.15

Keywords: COMPRESS

One-line description:

(un)compress may not retain modification time.

Problem:

- S300 GENERAL HPUX -

KPR #: 5000216697 **CONTINUED**

I have found what I consider a bug in the "compress" program in HP-UX 5.2. If I do a "compress" or "uncompress" on a file which I own, the resulting file still has the original owner, permissions, and modification date. However, if I do a "compress" or "uncompress" on a file which I do not own, the resulting file still has the original owner and permissions, but the modification date and time are changed to the current time.

My users and I store a great many sccs files in compressed format. It is convenient for all of us to be able to uncompress these files regardless of the last person (owner) to use them.

The retention of the last modification date is one of the features I preferred over "compact", which altered the modification date (as well as the ownership) of the file. This retention is useful to help identify the last update of the file, without having to use "prs" (on sccs files) or view the file itself.

Cause:

The owner and group file attributes were being set before the modification and access times were begin set. Because you did not own the file, the access and modification times were never set properly.

Fix information:

Fixed in HP-UX release 8.0

KPR #: 5000220160 Product: S300 GENERAL HPUX 98680B 05.03

Keywords: LIFCP

One-line description:

Lifcp with BDAT files not properly documented.

Problem:

The HP-UX Reference, 09000-90009 December 1986 Update, under lifcp(1) attempted to copy a file from HP-UX to LIF using a file type of -5791 does not explain the relationship between implementation values and in raw mode, the resulting LIF file had a protection on it and the record sizes were wrong. For example, the protection and record sizes under Basic. Hence, when the customer

lifcp -r -T -5791 bdat_hpx /dev/rfd:BDAT

results in a file named BDAT on the LIF volume that is protected. Furthermore, the record size is 1 byte when 256 bytes/record was desired.

Lifcp(1) DOES NOT say to use the implementation option to get around this-- it should.

Temporary solution:

The workaround to the problem is to create a file under Basic with the desired attributes, and then list the LIF file under HP-UX using lifls

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KPR #: 5000220160 **CONTINUED**

to get the implementation value, eg. lifls -l or lifls -i.

lifcp -r -T 0xfffffe961 -i 0x20200080 bdat_hpux /dev/rfd:BDAT

Fix information:

The lifcp(1) manual page was updated to support BDAT.

KPR #: 5000221259 Product: S300 GENERAL HPUX 98680B 05.20

Keywords: SH

One-line description:
cannot boot from 5.21 recovery system

Problem:

Bug in /bin/sh prevents booting from s500 hp-ux 5.21 recovery system. When trying to boot from the recovery tape the customer received the error,

/bin/-sh: Unexpected memory fault

/bin/-sh: No more space

The latter message was repeated endlessly.

There is no workaround. /bin/sh should be fixed to correct the problem.

Fix information:

Fixed in Release 5.3.

Signed off 10/26/89 in release B05.30

KPR #: 5000224683 Product: S300 GENERAL HPUX 98680B 05.03

Keywords: MM

One-line description:

MM ignores Bolding.

Problem:

Nroff -mm will properly bold using a laserjet printer and .B command. MM will not, the bolding is ignored, no errors are generated.

Cause:

This defect is caused by inappropriate use of hp(1) in mm.

Fix information:

Fixed in the release 6.5.

- S300 GENERAL HPUX -

KPR #: 5000225904 Product: S300 GENERAL HPUX 98680B 05.21

Keywords: MOUNT

One-line description:

Rev.5.2 mount(1) doesn't work with floppy discs.

Problem:

After an upgrade from 5.11 to 5.21 on a 9000 s/520 the use of the new version of mount on the integrated 5 1/4 " floppy generated the following message:

mount:/rdev/fd: no such file or directory
warning: /dev/fd may not be clean

Temporary solution:

The workaround to this problem is to move floppy disks to the new disk device directories:

/dev/rfd --> /dev/rdsk/fd
/dev/fd --> /dev/dsk/fd

Although it was not necessary in releases prior to 5.2 to have a 'raw' device file for a disk, new features in 5.2 (specifically support of the fsclean byte) require that such a device exist. Mount, along with several other commands, assumes that the character and block device files are located in the /dev/rdsk and /dev/dsk directories, respectively, with a common basename, as described in the DISK(7) HP-UX Reference Manual.

Signed off 10/26/89 in release B05.30

KPR #: 5000228635 Product: S300 GENERAL HPUX 98680B 05.03

Keywords: DELTA

One-line description:

Delta(1) hangs when reading files with very long lines.

Problem:

Using SCS. After checking out a file, editing and trying to check it back in with delta(1), delta will hang and never return if the edited file contains very long lines (greater than 720 characters)

Cause:

Line buffers were too short to hold lines read by stdio.

Fix information:

Line buffer size was changed to match stdio BUFSIZ in 6.5 release.

KPR #: 5000232702 Product: S300 GENERAL HPUX 98680B 05.03

Keywords: TSort

One-line description:

Tsort(1) generates spurious output line when processing long file names.

Problem:

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KPR #: 5000232702 **CONTINUED**

Using "lorder" and "tsort" to build a library from existing ".o" files. The file names (which include the full path name) are about 50 to 55 characters long. The output from "tsort" includes an extra line which has characters similar to "x.o" as the first line.

Cause:
Character arrays for the names were only 50 characters long.

Temporary solution:
Filenames to be tsort'ed should be shortened to less than 50 chars.

Fix information:
In 8.0 release.

KPR #: 5000233601 Product: S300 GENERAL HPUX 98680B 05.05

Keywords: LP

One-line description:
Slp(1) doesn't allow "-a" and "-d" options together.

Problem:
When using the "slp" command, you can't simultaneously change the default parameter setting and display the current settings. For example:
slp -i0 >/dev/lp #change indentation=0
slp -d -a >/dev/lp #This doesn't work.
line=66 columns=132 indent=0 # output generated by "slp" command.

Cause:
Because the lp(7) device driver doesn't any capability to read the default value of the printer, there is no way for slp(1) to get the default without close and reopen of the driver.

Fix information:
Will be fixed in HP-UX 8.0 release for S300 and S800.

KPR #: 5000236984 Product: S300 GENERAL HPUX 98680B 05.21

Keywords: CATMAN

One-line description:
Running catman(1) at high priority (with "nice") causes system errors.

Problem:
Executing catman with a nice -19 generates errors (catman by itself works fine). These errors are of the form "*: no such file or directory".

If this is not enough this also causes problems with the shutdown procedure. After the above is executed the following error messages alternately come from the shutdown script:
init process termination; errno=4 errinfo=309, trapno=0
and
init process termination; errno=25, errinfo=320, trapno=0
The shutdown does continue and the reboot seems to be fine.

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KPR #: 5000236984 **CONTINUED**

Fix information:
May be fixed in a future release.

KPR #: 5000244236 Product: S300 GENERAL HPUX 98680B 05.02

One-line description:
PAM does not work properly with 98700 stations.

Problem:
9050 hp-ux 5.2 with 98700 display station. Pam(1) does not work properly when run on the 98700 display station.

When pam(1) is invoked it appears correctly on the display, but to invoke a command from the command line you have to type it twice hitting <cr> each time.

The output from the command does not fill the screen, as it should, despite the fact that the TERM variable is set to "98700". This worked properly under the previous release of hp-ux, hp-ux 5.1.

KPR #: 5000280461 Product: S300 GENERAL HPUX 98680B 05.05

Keywords: CURSES

One-line description:
CONFLICT BETWEEN CURSES, SIGVECTOR AND SETITIMER

Problem:
SERIES 330 HPUX 5.5 ELEZA SMITH - SANTA CLARA RESPONSE CENTER
There is a conflict when an application uses curses, sigvector, and setitimer. The application is using setitimer and sigvector to refresh the screen on a periodic basis (every second) . If an escaped key is pressed on the keypad, right arrow key for example, the curses routine does not replace the signal. The following code will reproduce the problem.

```
#include<curses.h>
#include<time.h>
#include<signal.h>
#define KEY_F1 0411
#define KEY_F2 0412
#define BLANK ""
int dis_val = 1;
int ch = 'a';
int done = 0;
char ch_str[200];
```

Fix information:
May be fixed in a future release.

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KPR #: 5000396648 Product: S300 GENERAL HPUX 98680B

06.00

Keywords: LP

One-line description:
line printer hangsProblem:
See submitter text.Fix information:
Fixed in the 7.0 release of HP-UX for Series 300 and 800.

KPR #: 5000397711 Product: S300 GENERAL HPUX 98680B

02.00

One-line description:
Enhancement request to increase the number of files sort can handle

Problem:

The problem is a system-imposed limitation on the number of open files a process may have at any one time. Although this is a limitation, there is an easy workaround provided. Increasing this limitation will have serious repercussions on the rest of the system.

Cause:
HP-UX limits the number of open files a process may have. When a user tries to sort more than 58 files, the command bombs.

Temporary solution:

As a temporary workaround you can sort some of the files into a temporary file, sort the rest into a different temporary file and then sort the two temporary files into the final result.

There is a script included in the .response file which will sort a large number of files for you.

Fix information:

Code change to support > 58 files... 1024.

KPR #: 5000397737 Product: S300 GENERAL HPUX 98680B

06.00

Keywords: KSH

One-line description:
.sh history does not come up as default

Problem:

For user root, no history file is used unless the HISTFILE parameter is set in the .profile or \$ENV files. The ksh man page states that the default value is .sh_history, but this is not the case for root.

Temporary solution:

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KPR #: 5000397737 **CONTINUED**

In either root's .profile or root's \$ENV file, set the HISTFILE parameter to the name of the desired history file. Ksh will not turn on history for root unless HISTFILE is set (no default for root).

Fix information:

For the 8.0 release of HP-UX, the ksh(1) man page documents the behavior of shell history for the user root. See the section describing the HISTFILE variable.

KPR #: 5000400846 Product: S300 GENERAL HPUX 98680B

06.00

Keywords: AXE

One-line description:
axe system doesn't have tty command used by lp spooler scripts

Problem:

The command /bin/tty is used by some of the example LP spooling scripts that is part of the AXE product. However, /bin/tty only exists in a fileset that is supplied as part of the PE product. This causes some of the LP spooling scripts to fail in certain situations.

02/28/90

Cause:

This defect is really caused by the LP model scripts using a command when they could be using a builtin shell test. Rather than use:

```
if tty -s <&1 ; then
  echo "its a tty"
else
  echo "its not a tty"
fi
```

The scripts should have used:

```
if [ -t ]; then
  echo "its a tty"
else
  echo "its not a tty"
fi
```

Thus, the scripts would no longer be dependent on the 'tty' command, which is not necessarily available in the AXE product.

02/28/90

Temporary solution:

The occurrences of "tty" in the LP model scripts may be changed from:

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KPR #: 5000400846 **CONTINUED**

if tty -s <1

to:

if [-t 1]

This workaround is not necessary on HP-UX 7.0 or later releases, as the model scripts now use this method to determine if the output device is a tty.

02/28/90

Fix information:

Fixed in the 7.0 release of HP-UX on the Series 300 and 800.

02/28/90

KPR #: 5000404012 Product: S300 GENERAL HPUX 98680B 06.00

Keywords: NROFF

One-line description:
nroff hangs on specific input file

Problem:

The nroff command hangs on a specific input file. The input file is incorrect however. The diversion to "T" starts at 10 lines before from bottom of page. (.wh -10v ET) While in the diversion, page position is not increased therefore ".FI" is never invoked. So the diversion does not end.

Fix information:

May be fixed in a future release.

KPR #: 5000410191 Product: S300 GENERAL HPUX 98680B 06.00

Keywords: LP

One-line description:
LP -W SOMETIMES FAILS TO SENDS MAIL TO PROPER USER

Problem:

LP -w sometimes fails to send mail to proper user in case that the user rlogin/telnet to the host and logout from the machine during printing his request. Instead of mailing to him, lpsched writes the message to the next user's terminal, who login to the host after the user logout.

Cause:

When lpsched check to see if the user login to the host, it does check only if the login name exists in the utmp file, not check the process status. Therefore, even if the user logout from the machine, his entry remains there, so lpsched gets a wrong port. Since the port can be used for the next login user, the next one

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KPR #: 5000410191 **CONTINUED**

may get the lpsched's message instead of the proper user.

Fix information:

Fixed already in HP-UX 7.0 S300/S800

KPR #: 5000417394 Product: S300 GENERAL HPUX 98680B 05.21

One-line description:
NROFF STORAGE CAPACITY IS TOO SMALL.

Problem:

Customer was getting "Out of temp file space" error messages and nroff was aborting early.

Cause:

The cause was due to insufficient data storage within nroff. The defect was repeatable on both S300 and S800, 7.0 and 8.0. When the table was full, the message "Out of temp file space" is generated and nroff exits.

Fix information:

The fix will be in Release 8.0. The version number of nroff should be 66.10 or higher.

KPR #: 5000419028 Product: S300 GENERAL HPUX 98680B 03.00

One-line description:

In SAM, need an optional field for passwd while setting up UUCP

Problem:

This is an enhancement request to change the way SAM handles passwords f or UUCP.

Fix information:

No plans for a fix at this time.

KPR #: 5000419770 Product: S300 GENERAL HPUX 98680B 06.02

Keywords: UMOUNT

One-line description:

AMOUNT DOES NOT REMOVE TMP FILES

Problem:

umount(lm) makes a temporary file that will eventually replace /etc/mnttab. If the umount(lm) fails for any reason, the temporary file will be left in place.

Cause:

In order for umount to create a new version of /etc/mnttab, a temporary file is created to hold what will be the new /etc/mnttab file. If the umount fails for any reason, the temporary file is not removed.

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KPR #: 5000419770 **CONTINUED**

Temporary solution:

These files are always the /etc directory. Furthermore, the file names always start with the characters /etc/umount. These files can be removed by directing cron to rm /etc/umount[a-z][0-9]*.

Fix information:

umount(1M) uses the kernel's view of the mounted file systems rather than attempting to create a new file based on what the /etc/mnttab file states as mounted. The result is an accurate /etc/mnttab file using no temporary files. This repair is in release 8.0.

KPR #: 5000420117 Product: S300 GENERAL HPUX 98680B 06.00

Keywords: LP

One-line description:

Lpr script doesn't correctly handle the -R option

Problem:

lpr script doesn't handle the "-r" option properly.

Cause:

The "remove" variable in the script haven't been addressed correctly.

Temporary solution:

The temporary correction is to put a \$ in front of the REMOVE variable.

For example:

```
INCORRECT:
IF [REMOVE = TRUE]
THEN
CORRECT:
IF [$REMOVE = TRUE]
THEN
```

RM -F \$FILES

RM -F FILES

FI

FI

Fix information:

Fixed in the 6.5 release of HP-UX.

KPR #: 5000436899 Product: S300 GENERAL HPUX 98680B 06.02

Keywords: UUCP

One-line description:

the -j and -o options to uustat return an illegal option message

Problem:

uustat manual page lists unsupported options

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KPR #: 5000436899 **CONTINUED**

Temporary solution:

Don't use any of the options listed as S300 only

Fix information:

When H-P adopted HDB uucp, all of the S300 specific uustat options became obsolete. The manual was not updated to reflect these changes. It will be chagned for the 8.0 release.

KPR #: 5000437129 Product: S300 GENERAL HPUX 98680B 06.02

Keywords: RMNL

One-line description:

return code from "rmnl" is incorrect.

Problem:

The command would exit and not return a value when everything worked fine.

Cause:

The code would exit without returning a value when everything worked without error.

Fix information:

The rmnl command was fixed for HP-UX Rev. 8.0 for the s300 and s800 architectures. The fix involed a code change to return the correct status for no error. This fix is at level 66.1.

KPR #: 5000440180 Product: S300 GENERAL HPUX 98680B 02.01

One-line description:

acctcom(1) doesn't properly report command exit status codes -- ATT

Problem:

The STAT field in the output of the acctcom command was never documented very well. Users expected it to be the exit status of commands, similar to \$? in sh or ksh. If a command did an exit(1), they felt acctcom should show a 1 in that field.

Temporary solution:

There is no workaround.

Fix information:

The fix will appear in Release 8.0.

- S300 GENERAL HPUX -

KPR #: 5000445296 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: KERNEL

One-line description:
kernel should always check either euid or ruid - be consistent

KPR #: 5000448654 Product: S300 GENERAL HPUX 98680B 06.02

Keywords: LP

One-line description:
Cannot do raw output to serial device using the hp2686a model script

Problem:
See submitter text.

Cause:
See fix text.

Fix information:

The HP-UX 6.2 version of hp2686a model script attempts open both raw device and cooked device on raw output mode.
This is correct for lp(7) device, but incorrect for RS-232C device.

The script is modified to open only one device file.
This defect will be fixed on next release.

KPR #: 5000465161 Product: S300 GENERAL HPUX 98680B 06.02

Keywords: LP

One-line description:
lpstat generates bad output when IO is redirected

Problem:

The lpstat command works fine when you have a local printer and a remote printer and send the output to the screen but if you redirect the output to a file the order of the printers is corrupted.

The complaint here is that the lpstat output, when sent to a file, does not match the output when it is sent to the screen. In particular, the remote print queue information appears at the tail of the screen, but at the head of the file. The information is not corrupted, it just does not appear in the same order.

Fix information:
This defect may be corrected in the 8.0 or 9.0 HPUX release.

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KPR #: 5000470922 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: CRON

One-line description:
need to change the effective use of \ in crontab

Problem:
The code in cron.c wasn't mapping \% to \% inside a command.
It does now.

Cause:
The code in cron.c wasn't mapping \% to \% inside a command.
It does now.

Fix information:
Fixed in release 8.0.

KPR #: 5000471979 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: MKDIR

One-line description:
mkdir has undocumented limit of 1000 sub directories

Problem:
Hp-ux was changed to allow no more than {LINK_MAX} links to a directory. This change was made so we could pass the SVCS and claim SVID conformance. We all hope that ATT will remove this as part of the definition of System V. The change is not documented on the mkdir(1) man page but is documented on the mkdir(2) page, although there is no indication of where LINK_MAX is defined. I will update the man pages for 8.0 to make this clearer.

Fix information:
See .problem

KPR #: 5000474841 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: SAM

One-line description:
SAM requires sequential logical unit numbers, cannot skip one

KPR #: 5000476200 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: AR BACKUP FILE

One-line description:
ar(1) does not accept long filenames

Duplicate Service Requests: 5000505198 1650122846

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KPR #: 5000477828 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: MKMF

One-line description:
MKMF SHOULD UNDERSTAND SCCS FILES

Problem:
mkmf does not know how to deal with s.file.c in the source directory and adds it to the SRCS list.

Cause:
mkmf's original design did not expect SCCS files in the source directory.

Temporary solution:
The work around is to edit the makefile after it is produced and remove SCCS file names. Be sure to remove "\<newline>" from preceding lines when necessary.

Fix information:
This will be fixed in the HP-UX Release 8.0

KPR #: 5000478107 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: FUSER

One-line description:
chgrp(1) and newgrp(1) don't handle \ in /etc/groups correctly

Problem:
IN /etc/groups file if you use the \ to escape the newline character the chgrp and newgroup commands fail to deal with the escape correctly. In all other cases the \ is invisible to the commands being run. This makes it impossible to have more than 12 lines as one whole line because vi and ed can not handle any characters per line.

Fix information:
May be fixed in a future release.

KPR #: 5000481465 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: KSH

One-line description:
problem with timeouts in the Korn shell when in the vi editor

Problem:
If you run a ksh subshell from vi, and that subshell exits due to the timeout feature of ksh (the TIMEOUT variable was set), then after the ksh exits, vi is hung.

Cause:
In the case where ksh exits due to a timeout, ksh fails to set the

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KPR #: 5000481465 **CONTINUED**

process group of the tty back to vi's process group. When vi tries to access the tty, it is in the wrong process group and gets put to sleep.

Fix information:
Fixed in the 8.0 release of HP-UX.

KPR #: 5000482943 Product: S300 GENERAL HPUX 98680B 03.01

One-line description:

SAM incorrectly translates mux0 driver LU in special file minor number

Problem:

The wrong major number was being used in certain cases in the mkterm.sh script in SAM's back end code.

Cause:
see .problem

Fix information:
This will be fixed for 8.0.

KPR #: 5000484378 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: TAR

One-line description:
tar(1) creates files with // in front of file name

Duplicate Service Requests: 1650107037

KPR #: 5000493288 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: KSH

One-line description:

ksh(1) when trap on exit from a child in vi(1), terminal locks up

Problem:

If you spawn a ksh from vi, and the ksh has a trap set on EXIT, then when the ksh exits it leaves the tty unusable for vi (the process group associated with the tty is wrong).

Cause:

Ksh cleaned up the tty before it executed any trap on EXIT. As a result of executing the trap on EXIT, the tty's process group was left the same as ksh's process group. The process group of the tty should be set to vi's process group before

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KPR #: 5000493288 **CONTINUED**

ksh exits. Note: this will only happen if job control is turned on in ksh (set -o monitor).

Fix information:

Fixed in the 7.0 release of HP-UX.

KPR #: 5000493478 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: MOUNT

One-line description:
mount(1), df(1) say device mounted if its minor number same as root disk

Problem:

mount and df commands report duplicate devices as being mounted

Cause:

This problem is caused by having duplicate entries in the /etc/mnttab file.

Temporary solution:

A stop gap workaround is to edit the /etc/mnttab file and remove duplicate entries.

Fix information:

This problem is fixed in release 8.0.

KPR #: 5000493999 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: SHUTDOWN

One-line description:
"init s" or "shutdown 0" causes error message "HOME variable not set"

Problem:

The shell that is run in single user mode complains that the environment variable "HOME" is not set. This causes the "cd" builtin command to fail (when used without an argument), since the shell does not know where your home directory is.

All of the shells expect that a "reasonable" environment exist when you start them, this environment is expected to include "HOME".

03/19/90

Cause:

This problem is caused by the fact that /etc/init does not include the variable "HOME" in the environment that it sets up when running a shell in single-user mode. /etc/init should be setting up a "reasonable" environment for the shell, so that the shell can behave properly.

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KPR #: 5000493999 **CONTINUED**

03/19/90

Temporary solution:

After the single-user shell is started, run the command:

HOME=/ exec /bin/sh

This will overlay the current shell with a new shell that has HOME set.

03/19/90

Fix information:

Fixed in the 8.0 release of HP-UX on the Series 300 and 800.

03/19/90

KPR #: 5000495978 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: CURSES

One-line description:
bus error in program on 300 using curses and shared memory allocation

Problem:

The kernel attaches a shared memory segment at a low address. This limits the amount of memory available for allocation by calloc. The caller of calloc in CURSES does not check for allocation failure. Bus error occurs when the null pointer returned by calloc is referenced.

Temporary solution:

Customer program can specify a high address in calling shmctl. The shared memory segment will then be attached at that high address rather than at a low address chosen by the kernel. The address specified by the customer should be high enough so that enough memory is available for use by the calloc calls in CURSES.

Fix information:

This problem will be fixed in release 8.0.

KPR #: 5000496430 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: KSH

One-line description:

ksh(1) with m option does not handle background processes as expected

Problem:

Background jobs are not killed upon logout from ksh, they become inherited by init. This is only a problem if the login ksh has job control turned on (set -m). If job control is turned off (set +m),

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KPR #: 5000496430 **CONTINUED**

the background jobs are terminated upon logout.

Cause:

At logout, ksh checks to see if it is interactive, job control is on, and its parent's pid=1. If all of these are true, then ksh will send a SIGHUP to the process group of each background job that is running. Ksh will also send the SIGHUP if it was killed by a SIGHUP.

If the user has logged onto the system through a window (hpterm, xterm, etc.) or from another machine through the network (rlogin, telnet, etc.), then it is unlikely that the parent of the shell has a pid=1 (the parent of the shell would be, e.g., hpterm or rlogind). In this case ksh will not attempt to send SIGHUP to running jobs before exiting, and they will be inherited by init.

If job control has been disabled in the login shell (e.g., "set +m" in the \$ENV file), then the background jobs will be in the parents process group and the system will ensure that they get killed.

Fix information:

May be fixed in a future release.

KPR #: 5000496729 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: DISC

One-line description:

du -s on NFS-mounted directory on SUN disk reports in 256-byte blocks

Problem:

When using the du command on files or file hierarchies that reside on a non HP-UX filesystem, the number of reported disk blocks may be inaccurate. This defect is new in the 6.05 release of HP-UX, the command worked correctly in the 6.0 release.

For example, when du is run on a filesystem that resides on a Sun system:

```
$ du /nfs/Sun-system/tmp
700 /nfs/Sun-system/tmp
```

the du command will report a value that is twice what it should be. The command should have reported:

```
$ du /nfs/Sun-system/tmp
350 /nfs/Sun-system/tmp
```

(which is what it did in HP-UX 6.0).

This problem still exists in the HP-UX 7.0 release.

02/26/90

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KPR #: 5000496729 **CONTINUED**

Cause:

This problem was caused by a change made to the du command that assumed that the value returned by stat() call on a file in the st_blocks field are in units of 1024 bytes. This is true for HP-UX file systems, but not necessarily true for other vendor's.

In the 6.0 release, du used the st_size value and then scaled it by 512 to calculate the number of blocks. This is not always as accurate as using the st_blocks field for HP-UX filesystems, which is why the command was changed for the 6.05 release to use st_blocks.

However, du should only use st_blocks on HP-UX file systems. When calculating disk usage for foreign file systems, du should use the st_size field and scale this value by 512 to calculate the number of blocks.

02/26/90

Fix information:

Fixed in the 8.0 release of HP-UX on the Series 300 and 800.

02/26/90

KPR #: 5000496885 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: KERNEL

One-line description:

kernel parameter shmbk should not affect size of kernel data structures

Problem:

In HP-UX 6.5 and 7.0 the shmbk kernel parameter specifies the attach point for shmem segments and drastically effects kernel page table sizes since sparse virtual address spaces are not supported.

Cause:

This problem is due to the fundamental design of the system V VM system.

Temporary solution:

The user is aware of the two workarounds:

- 1) call malloc to allocate all dynamic memory before attaching shared memory
- 2) attach shared memory at a specific address in the address space.

Fix information:

The fix is a new VM system that supports large sparse virtual address spaces. This has been implemented for HP-UX release 8.0

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KPR #: 5000500520 Product: S300 GENERAL HPUX 98680B

06.05

Keywords: FIND

One-line description:

"find" command fails to check context dependent files

Problem:
The submitter states that find(1) is not working properly when used in a command of the form:

```
find . -hidden -print | cpio -pdmvx some_directory
```

Actually the problem is not in find(1), but in a special version of cpio(1) that was left in /bin/cpio during the update to the 6.5 release in certain situations. The special version of cpio(1) does not handle symbolic links or CDFs properly. It was used by the /etc/update program and then later replaced with the real version of cpio that works correctly. However, in certain situations (running /etc/update a subsequent time and not loading the fileset containing the real version of cpio), the special version of cpio(1) was left in /bin.

The following messages:

```
Cannot chown </users/garvey/tmp/studpid/cron> (errno:2)
Cannot chown </users/garvey/tmp/studpid/sockets/X11+> (errno:2)
Cannot chown </users/garvey/tmp/studpid/sockets/grmd+> (errno:2)
```

are consistent with the behavior of the special cpio when it is used to copy CDFs.

05/09/90

Cause:

The problem is not in find(1), but in a special version of cpio(1) that was left in /bin/cpio during the update to the 6.5 release in certain situations. The special version of cpio(1) does not handle symbolic links or CDFs properly. It was used by the /etc/update program and then later replaced with the real version of cpio that works correctly. However, in certain situations (running /etc/update a subsequent time and not loading the fileset containing the real version of cpio), the special version of cpio(1) was left in /bin.

The following messages:

```
Cannot chown </users/garvey/tmp/studpid/cron> (errno:2)
Cannot chown </users/garvey/tmp/studpid/sockets/X11+> (errno:2)
Cannot chown </users/garvey/tmp/studpid/sockets/grmd+> (errno:2)
```

are consistent with the behavior of the special cpio when it is used to copy CDFs.

05/09/90

Temporary solution:

The "special" version of cpio(1) may be identified by using the command:

KPR #: 5000500520 **CONTINUED**

\$ what /bin/cpio

If the "what" string indicates that it is an "update version", then you have the broken version of cpio(1).

You may restore a good version by running /etc/update with your 6.5 release install or update media and re-loading the fileset that contains /bin/cpio (the "CORE" fileset). This will restore the correct, working version of cpio.

This problem does not exist in 7.0 and later systems, no workaround is required if you are running a release later than 6.5.

05/09/90

Fix information:

Fixed in the 7.0 release of HP-UX on the Series 300 and 800.

05/09/90

KPR #: 5000501296 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: LP

One-line description:

lp to a 2563 printer inserts extra form feeds

Problem:

When the "-n" option is specified with lp command and the text file is longer than one page, the first copy is printed correctly but the remaining copies have extra form-feeds in the first page.

Cause:

This is the result of the model not emitting a form-feed at the end of each print job as the printer is reset. The reset escape sequence is not interpreted by the lp driver and so the printer ejects a page (on reset) but the driver retains its old line count. Thus when the last page of a copy contains n lines, the page is ejected, the next copy is started, 66-n lines are printed, then the driver inserts a form-feed. Additional pages of the copy are printed correctly.

Temporary solution:

This problem may be worked around by disabling the automatic insertion of form-feed by the ciper lp driver. Add the -n option to the existing "slp -k" command in the /usr/spool/lp/interface/printer_name file for the printer as follows:

```
slp -k -n 2>/dev/null
```

or, add "\014" i(form feed) to the reset sequence after the file is printed:

```
echo "\014\033E\r\c"
```

Reset Printer

Fix information:

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KPR #: 5000501296 **CONTINUED**

This defect is fixed in the PCL[234] models (and their links) in the 8.0 release.

KPR #: 5000502997 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: EX

One-line description:
CTAGS not processing if's properly

Problem:
The ctags program does not yield correct results for some blocks of C code which are not syntactically correct.

If the following code is in a file called test1:

```
x (
{
  if (a)
  if (b)
}
```

and ctags is run on it:

```
ctags test1
```

then the correct tags file is produced:

```
x test1 /~x ()$/
```

But if the following code is in a file called test2:

```
x (
{
  if (a)
  {
  if (b)
  }
```

and ctags is run on it:

```
ctags test2
```

then an incorrect tags file is produced:

```
if test2 /~if (b)$/
x test2 /~x ()$/
```

Note that neither of the files test1 or test2 contain syntactically correct C code.

The user noticed that ctags(1) would produce bogus results in certain circumstances. The circumstances they site are not correct. The root problem is not with 'if' statements per se, but with programs that do

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KPR #: 5000502997 **CONTINUED**

not conform to the standard format produced by cb(1).

All the examples given will work correctly if filtered through cb(1). Programs which stray from the cb(1) standard may confuse ctags(1) and produce incorrect results.

Cause:

The ctags(1) command make some fundamental assumptions about its input when it is C code. In particular, it assumes that the code has been filtered through (or at least follows the conventions of) cb(1).

The command assumes that a '}' character in column 1 implies the end of a function. Internally, the command keeps track of {} pairs. Code which appears like this:

```
function foo1()
{
  <code deleted>
}
```

is correct according to cb(1). If for example the code does not follow cb(1) standards and looks like this:

```
function foo2()
{
  if (x) {
  while (b) {
  }
```

then the code assumes that the } on the fourth line ends function foo2. It then decides that 'while' is the name of the next function when it sees the { character on that line. It puts 'while' into the tags file. This is incorrect.

Note that there is no claim that this code will compile. In fact, it possible to write code that ctags(1) will handle correctly and cc(1) will not, and vice versa.

If the function is passed through cb(1), and appears as:

```
function foo2()
{
  if (x) {
  }
  while (b) {
  }
```

then this will work since no } are in column 1 other than the closing curly bracket for the function.

A good workaround in the meantime is to use cb(1), or to make certain that the only } characters in column 1 actually are the closing brackets

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KPR #: 5000502997 **CONTINUED**

for functions.

Temporary solution:

The workaround to this problem is to use syntactically correct C code.
For example, if the file test2 contains the following:

```
x (
{
  int a, b;
  if (a)
  {
    .
  }
  if (b)
  {
    .
  }
}
```

and ctags is run on it:

ctags test2

then a correct tags file is produced:

```
x      test2  /^x ()$/
```

The workaround posted above is not correct.

The real workaround for this problem is to use cb(1) on your code or to make certain that the only } characters in column 1 are the closing curly brackets of functions.

Fix information:

The fix will appear in Release 8.0.

KPR #: 5000503300 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: DISC

One-line description:

application program cannot open character special file for 9122D

Problem:

9000/350 hp-ux 6.5 + 9122d

An application program cannot open character special file of 9122d.
"open" reports error "no such device or address".

The same program can open a block special file for the same device.
Commands "dd" and "cat" can open the character special file.

Fix information:

May be fixed in a future release.

KPR #: 5000503318 Product: S300 GENERAL HPUX 98680B

06.02

Keywords: CPIO

One-line description:

"cpio" fails to read archive when executed via "remsh"

KPR #: 5000503367 Product: S300 GENERAL HPUX 98680B 03.10

Keywords: STARBASE

One-line description:

sleep(2) followed by gopen(3) generates core dump

Signed off 02/05/90 in release B07.00

KPR #: 5000505990 Product: S300 GENERAL HPUX 98680B 05.05

Keywords: CU

One-line description:

cu(1) doesn't transmit cursor movement escape codes correctly in vi

Problem:

When you use a hp2392 terminal on a 320 and you cu to a 835 the cursor movement escape codes are transmitted incorrectly. If you move the terminal over to the 835 it works fine. So the problem is that the cu program doesn't transmit the cursor movement escape codes correctly in vi.

Fix information:

May be fixed in a future release.

KPR #: 5000508911 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: SH

One-line description:

sh(1) loses positional parameters when executing ". script params"

Problem:

The problem is that if a script is executed from the Bourne shell as:

```
. script_name par1 par2 par3
```

so that another shell is not spawned the positional parameters are \$1, \$2, \$3 (in this case) are lost.

Cause:

The Bourne shell does not setup the positional parameters before invoking the shell builtin command "." (DOT).

The fix is to setup the positional parameters before invoking "." command.

Fix information:

KPR #: 5000508911 **CONTINUED**

The fix will be in the 8.0 HP-UX release.

KPR #: 5000510636 Product: S300 GENERAL HPUX 98680B 06.05
Keywords: DD

One-line description:
dd(1) will not read from a 9145 cartridge tape, but tar and tcio will

KPR #: 5000511394 Product: S300 GENERAL HPUX 98680B 06.05
Keywords: DOCUMENTATION

One-line description:
configuration ref. manual is not current nor complete

Problem:
Configuration Reference Manual, Part No. 98561-90020, is badly outdated. It needs to be updated and then kept current.

Fix information:
May be fixed in a future release.

KPR #: 5000519504 Product: S300 GENERAL HPUX 98680B 06.02
Keywords: ED

One-line description:
ed(1) does not work on files larger than 128k

Problem:
Ed(1) can't edit the file larger than 128k bytes. But this is the specification for the current ed(1). See the man page of ed(1).

Cause:
Ed(1) reads the file to be edited into the temporary file. The contents of this temporary file are accessed by using 16-bit number. The eight bits of it represents the block number. The maximum number of block is limited to 255 and the size of block is 512 bytes so the limit of buffer size is about 128k bytes.

Temporary solution:
Use ex instead of ed.

Fix information:
Will be fixed in the 8.0 release of HP-UX for the Series 300 and 800.

KPR #: 5000522896 Product: S300 GENERAL HPUX 98680B 06.05
Keywords: FTIO

One-line description:
ftio does not work with 7979 tape drive

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KPR #: 5000523605 Product: S300 GENERAL HPUX 98680B

Keywords: KERNEL

One-line description:
dd(1) write to 7959 scsi disk returns error on last block

KPR #: 5000523977 Product: S300 GENERAL HPUX 98680B 06.05
Keywords: MAIL AXE

One-line description:
AXE lp scheduler tries to use mail(1) but mail is not in AXE

Problem:
AXE lp scheduler tries to use mail(1) even though mail(1) doesn't exist in AXE.

Cause:
Lpsched(1M) doesn't check if there's mail(1) or not. It should have done the checking before trying to invoke mail(1).

Fix information:
Will be fixed on the release 8.0.

KPR #: 5000527226 Product: S300 GENERAL HPUX 98680B 06.05
Keywords: CPIO

One-line description:
cpio(1) reads table of contents on only one side of optical media

KPR #: 5000527929 Product: S300 GENERAL HPUX 98680B 06.05
Keywords: PWD

One-line description:
"pwd" command reports wrong path for symbolic link over "netnam" command

Problem:
The submitter was reporting that, when they are on a diskless cnode and then cd to a directory across an RFA connection, the pwd command fails, and reports an error. This does not happen when the same situation is duplicated on a diskless server or standalone machine.

05/09/90

Cause:
This problem was caused by a kernel defect in the RFA code for diskless clients. The is a known problem and was documented with the 6.5 release in the file /etc/newconfig/Update_info/to.6.5.

05/09/90

Temporary solution:

The following explains some simple workarounds which are easily implemented at the end-user's workstation:

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KPR #: 5000527929 **CONTINUED**

1. If "csh(1)" is started on the local file system, and "cd" is then used to change to a remote directory, then the shell variable "cwd" WILL contain the correct directory. This is accessible by executing the command "echo \$cwd".
2. If "ksh(1)" is started on the local file system, and "cd" is then used to change to a remote directory, then the shell variable "PWD" WILL contain the correct directory. This is accessible by executing the command "echo \$PWD".

3. It is NOT possible using "sh" to determine the current directory (if the directory is remote), although using "ksh" instead of "sh" may solve the problem.

Fix information:

Fixed in the 7.0 release of HP-UX on the Series 300 and 800.

05/09/90

KPR #: 5000529883 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: MKRS

One-line description:
modify mkrs to work with the optical disc

Problem:

MKRS does not support the S6300.650A magneto-optic disk drive.

Cause:

None, this is an enhancement.

Temporary solution:

Tcio is only used during the cleanup procedure in mkrs after the recovery system is complete. Although support for M0 does not exist in your mkrs, it may be the case that a good recovery system was created on your M0 disk.

Fix information:

Fixed in HP-UX release 8.0

KPR #: 5000538983 Product: S300 GENERAL HPUX 98680B 06.05

One-line description:

C1 internal error in "xxx": unknown optype passed to find().

Problem:

The problem occurred because of a function pointer cast on a constant. Insufficient information was passed from the first pass of the compiler to the global optimizer, thereby confusing its symbol table handler. The global optimizer handles most calls to functions by first looking up the function in its symbol table. Since there was no symbol in the

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KPR #: 5000538983 **CONTINUED**

table for this particular function, the global optimizer crashed.

Cause:
The global optimizer did not account for anonymous function references which can occur when a constant is cast to be a function pointer.

Fix information:

Since all functions are handled alike regardless of their name it was not really necessary to find a function in the symbol table for correct handling by the global optimizer. Code was added to the optimizer to continue processing gracefully in the event of an anonymous function call.

KPR #: 5000538991 Product: S300 GENERAL HPUX 98680B 06.05

One-line description:

C compiler error: register allocation error

Problem:

The S300 7.0 compiler fails to generate code for the statement:

```
*(((char*)(0x700)) + strlen(((char*)(0x700))) + 1) = '\0';
```

Cause:

This problem is caused by the C compiler underestimating how many registers it would need to generate code for the expression:

```
*(((char*)(0x700)) + strlen(((char*)(0x700))) + 1) = '\0';
```

If the compiler thinks it has enough registers but in reality it does not it will abort without generating code.

Fix information:

This problem will be fixed in the S300 8.0 Compiler release.

KPR #: 5000539379 Product: S300 GENERAL HPUX 98680B 06.05

One-line description:

Using pg "\n" preceded by "\0" doesn't produce new line.

Problem:

An attempt to use pg on files containing the NULL character was unsuccessful. Since pg(1) is designed for use only on text files (which cannot contain NULL), this behavior is not a defect. Other programs suitable for viewing such files, such as vis, should be used as an intervening filter as in:

```
prog | vis | pg
```

Temporary solution:

Use vis(1) to convert non-text characters before passing to pg. For example:

```
prog | vis | pg
```

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KPR #: 5000539379 **CONTINUED**

Fix information:

A documentation change will be made in the 8.0 release.

KPR #: 5000542357 Product: S300 GENERAL HPUX 98680B 06.05

One-line description:
different results with -O

Problem:

Common subexpression elimination incorrectly deduced that the following expressions were CSEs and thus the following program is incorrectly optimized:

```
When I made a.out using 'cc test.c' and 'cc -O test.c', I couldn't
get same result from a.out
/** test.c program *****/
unsigned char c[] = {0,1,2,3}; /* result from cc test.c is
                                0203001 */
```

```
main(){
    sub(c); /* result from cc -O is 02010001 */
    return(0);
}
```

```
sub(buf)
unsigned char buf[];
{
    unsigned long l;
    int ptr;
    ptr = 0;
    l = (unsigned long)(buf[ptr] << 8) + buf[ptr + 1];
    ptr += 2;
    l += (unsigned long)(buf[ptr] << 8) + buf[ptr + 1] << 16;
    ptr += 2;
    printf("4 byte data is %0x8lx\n",l);
}
```

Cause:
Common Subexpression Elimination was done incorrectly in this case
-- array references not handled properly.

Temporary solution:
Compile with +O1 or no optimization -- avoid -O or +O2.

Fix information:
Fixed in HP-UX 7.0 release.

KPR #: 5000547547 Product: S300 GENERAL HPUX 98680B 06.05

Keywords: LP

One-line description:
Permissions on lp(1) are incorrect.

Problem:
lp allowed users to print files the could not read

- S300 GENERAL HPUX -

KPR #: 5000547547 **CONTINUED**

Cause:
lp is setuid for several reasons, and the code was not careful about
setting the uid back for file opens

Temporary solution:
Make lp setuid lp on your system, or update to 7.0

Fix information:
The code as been significantly modified to allow it to safely run
setuid root

- S300 GENERAL HPUX -

KPR #: 4700567626 Product: SNA3270 300 36590A 03.10

One-line description:
SA msg queues should be created with permissions 660, not 666

Problem:
If the standalone SNA3270 message queue is created with permission 666, everybody can read or write to it, not just users in the sna group. That might be a security loop hole.

Fix information:

The Standalone sna3270 messages queue is now created with the permissions 660 instead 666.

Signed off 06/30/89 in release A03.20

KPR #: 4700567634 Product: SNA3270 300 36590A 03.10

One-line description:
sa_sna3270 spins if given a remotesplit hostname (hpindlb:ibm)

Problem:
The hostname hpindlb:ibm is the last entry in the file /etc/sna/hostlist. When standalone SNA3270 is invoked with option -h hpindlb:ibm, SNA3270 spins and hangs there, trying to check if this hostname exists in file /etc/sna/hostlist.

Fix information:

When sa sna3270 or sa_sna3270 looks for a hostname, it will browse through each line of the /etc/sna/hostlist file to check if that hostname exists.

The format of the hostfile is:
<hostname> <link device file> <link configuration file>
After checking the hostname, the PS will skip to the end of the line and then go to the next line. If the end-of-line is missing, the PS will spin. Therefore, the PS not only needs to check for end-of-line, it also checks for end-of-file.
A code change is made to the routine hostname_ipc() (msgspc.c) to fix this defect.

Signed off 07/06/89 in release A03.20

KPR #: 5000443366 Product: SNA3270 300 36590A 02.10

One-line description:
SNA3270 causes the 800 to lock up and hang.

Problem:
NTI operated this product in the supported configuration and caused the system to hang. This was independent of the Genesis code that they normally operate. A dump was forced and the current process was the SNA3270 process. On analysis of the dump by the kernel lab, it was discovered that the failure was occurring in the select system call which is called by the SNA3270 process. This call was hanging

- SNA3270 300 -

KPR #: 5000443366 **CONTINUED**

the system because it was operating at a real time priority less than any process that could preempt it. Neither netisr nor the timer satisfy the conditions necessary for this system call to complete, and therefore, the system deadlocked. The kernel people report that all network routines must have a higher priority than netisr or a deadlock situation can always occur. The customer is no longer running the product in real time and is no longer having a problem. The lab will fix the problem in the 5.0 release of the product. This has been reported to the customer and he is satisfied with our current actions.

Signed off 01/30/90 in release A07.00



- SNA3270 300 -

KPR #: 1650043760 Product: SNA3270 300

36591A

03.10

One-line description:

Power off LU, send LUSTAT. Power on lu, send Notify ON. This is wrong.

Problem:

The customer is using SNA3270 to logon to an application that does not unbind the session when you power off the terminal while in LU-LU session. Normally when you power off the terminal while in LU-LU session, we send an LUSTAT and the application sends an UNBIND. At the customer site, the problem is that when we stop the presentation service SNA3270 while in LU-LU session, we just send an LUSTAT (that's ok). However, as we start up SNA3270 again on the same LU, (from the IBM point of view, this lu is still in LU-LU session), we send a NOTIFY ON and that's not correct since we should send an LUSTAT.

Cause:

When sna3270 is powered off during a LU-LU session, the snalink sends a LUSTAT 0831 to signal the host that the device is powered down. LUSTAT but does not send an UNBIND. Instead, it sends a BID to the link. The link accepts this BID, which is incorrect, and put the device into the Receive state. Therefore, as another sna3270 starts up on the same LU, it cannot send a LUSTAT 082B to re-establish the LU-LU session.

Fix information:

A code change is made in the nuc code to reject the host BID after the device is powered down.

Signed off 03/29/89 in release A03.20

KPR #: 4700667600 Product: SNA3270 300

36591A

03.11

One-line description:

SNA3270 uses some help messages reserved for the Nuc.

Problem:

Each product in the SNA family should have their own range of error messages, since for Gateway configuration, the SNALink could be on one machine, while a presentation service session (SNA3270, SNA3770, LU6.2, SNA3179G ...) could be on a different machine. The error message catalog of each product should stay on the same machine that the product runs.

Fix information:

The following new help messages are added to the sna3270 help file:

-4022 Fork failed
 -4023 Illegal option(s)
 -4024 Calling process now allowed to run sna3270
 -4025 Incompatible interface level

- SNA3270 300 -

Known Problem Reports as of 07/23/90

KPR #: 4700667600 **CONTINUED**

-4026 Could not open snagateways file

The help messages in the following files are changed:

File:	Old help message	New help message
psmain.c	sna1001 sna2008	sna4022 sna4023
crtio.c	sna2015	sna4024
nsipcps.c	sna2041	sna4026
printer.c	sna2015	sna4024
ps_phys.c	sna2017	sna4025

The contents of the old help messages and the new help messages are basically the same. The numbers are modified to accommodate the new help facility.

Signed off 07/06/89 in release A03.20

- SNA3270 300 -

Known Problem Reports as of 07/23/90

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KPR #: 1650091597 Product: SNA3770 300 98184A 01.01

One-line description:
AS SOON AS MON3770 SEES TRN IN A PUNCH FILE, IT STOPS INTERPRETING DATA

Signed off 11/30/89 in release A07.00

Duplicate Service Requests: 1650091504 1650091074

KPR #: 4700714915 Product: SNA3770 300 98184A 01.00

One-line description:
JES3 receives invalid FM header from host with recommended logmode

Signed off 03/31/89 in release A01.01

Known Problem Reports as of 07/23/90

Page: 234

KPR #: 1650107045 Product: SNA3770 300 98188A 01.01

One-line description:
Enhancement: Enabling padding with trailing blanks, as real device does.

Signed off 05/24/90 in release A07.01

KPR #: 4700420307 Product: SNALINK 300 36592A 00.00

One-line description:

When only 1 lu is defined in the config file, X-f occurs when a key hit

Signed off 12/21/87 in release A03.10

KPR #: 4700474577 Product: SNALINK 300 36592A 00.00

One-line description:

Session, file transfer, and character drop problems with SNALINK.

Cause:

1) The last character of the file is a \$ and it is intermittantly dropped off in ispf screen because the screen painting routine did not update the screen appropriately.

2) When SNA3270 tried to establish a session with the host, it hang when user tried to logon to TSO. This problem happens because there is a race problem at SDLC level on the SNALink product.

3) The SNA3270 hang during file transfer. This problem happens because there is a race problem at the Nuclues/PS interface on the SNALink product.

Fix information:

1) After review the code of SNA3270, there is a defect found in the paint routine which is uses to paint the screen with the data receive from host. This routine did not function properly and cause some of the characters being dropped off.

2) There is a race problem in SNALink at the SDLC level. The Nuclues did not know there is data which need to be send to the PS on the queue. The Nuclues enters the block mode to wait for the data from PS; meanwhile, the PS waits for data from Nuclues. Deadlock occurs and causes the PS hang. To re fix the problem, before Nuclues enters the block mode, check the flag which is set when there is data on the queue. If the flag is set, Nuclues will not block on IPC queue, and return to the scheduler to process the data.

3) There is a race problem in SNALink at the Nuclues/PS IPC interface. Set the alarm before Nuclues blocks on IPC queue. When the alarm goes off, it will get the Nuclues out of the block mode. Nuclues will then return to the scheduler to see if there is any work need to be done.

Signed off 12/21/87 in release A03.10

KPR #: 4700667568 Product: SNALINK 300 36592A 03.10

One-line description:

if SA nucieus is dead, error messages aren't very friendly

Fix information:

- SNALINK 300 -

KPR #: 4700667568 **CONTINUED**

There are 2 problems to this defect report, after the Nuc is is killed -9:

- (1) If the user starts up SNA3270, a timeout message is issued but it is not meaningful enough. A code change is make to read_aif() in ps_phys.c such that the error message reads:
"Timeout while waiting for connection to host '<hostname>'"
- (2) When you run snamg, a request for status message is sent to the Nuc. As the Nuc has died abnormally, that message will never get replied. Upon detecting this, the snamg command should issue a timeout error message.

To achieve that, an alarm is set before the request for status is sent to the Nuc. After 20 secs, if Nuc does not answer to that request, snamg will put out an error message.

The code change is is made to check_stat() in cmd/manage/snamg.c.

One small footnote: Do NOT 'kill -9' the Nuc unless you have no alternatives.

Signed off 12/14/88 in release A03.11

KPR #: 4700734566 Product: SNALINK 300 36592A 03.20

One-line description:

if LU name is 8 chars, field formatting messed up in snarpt

Fix information:

snarpt use tab to go from field to field. Therefore, if the luname is 8 character long, it is right at the tab field mark and moves the status field over. This was brought up at the snarpt code review and fix was made to file snarpt.c such that all tabs were omitted and replaced by fields.

Also, snarpt no longer displays abbreviations such "w/", "rcvd" ...

Signed off 02/07/90 in release A07.00

KPR #: 5000520528 Product: SNALINK 300 36592A 03.21

One-line description:

system panic when SNALink is installed and PSIDAD is run

Fix information:

The system panic that results from running PSIDAD is due to a problem in the PSI driver shipped with HP-UX 3.1; the driver has been corrected for HP-UX 7.0 so this problem should no longer occur.

- SNALINK 300 -

KPR #: 5000520528 **CONTINUED**

Signed off 04/05/90 in release A07.00

KPR #: 5000542688 Product: SNALINK 300 36592A 03.21

One-line description:

Shanuc fails when the host sends ua an second snrm.

Signed off 04/10/90 in release A07.01

Duplicate Service Requests: 5000549196

KPR #: 4700419606 Product: SNALINK 300/GW 36593A

00.00

One-line description:

Request to allow more valid PSERVICE parameters in logemode table.

Signed off 12/21/87 in release A03.10

KPR #: 4700667519 Product: SNALINK 300/GW 36593A 03.10

One-line description:

ALPHA-SITE: Mod-2 BIND image rejected by SNALINK/SNA3179G.

Fix information:

Upon receiving a BIND request from the Host, SNALink validates the BIND image on behalf of the PS (e.g SNA3179G). As we recently discovered, the SNA3179G PS must support both Mod-2 and Mod-3 bind requests.

The following rules describe the SNALink validation for the PSERVIC bind parameter, required for SNA3179G:

Byte	Meaning	Shanuc field	Validation required
1	LU profile	psprof	Reject if != 0x02
2	Queriable Device	psusg[0]	Not checked
3	Reserved	psusg[1]	Not checked
4	Reserved	psusg[2]	Not checked
5	Reserved	psusg[3]	Not checked
6	Reserved	psusg[4]	Not checked
7	Primary rows	psusg[5]	(See below)
8	Primary columns	psusg[6]	(See below)
9	Alternate rows	psusg[7]	(See below)
10	Alternate columns	psusg[8]	(See below)
11	Screen size type	psusg[9]	Reject if not one of the following: 0x00,0x02,0x7e,0x7f
12	Reserved	psusg[10]	Not checked

Screen size validation:

1. If byte 11 is 0x00 or 0x02, then bytes 7-10 are not checked, but the primary and alternate rows are set to 0x18, and the primary and alternate columns are set to 0x50.
2. If byte 11 is 0x7e then:
0x01 <= byte 7 <= 0x20
byte 8 = 0x50
byte 9 = byte 7 (This byte is not validated)
byte 10 = byte 8 (This byte is not validated)
3. If byte 11 is 0x7f then:
0x01 <= byte 7 <= 0x20
0x01 <= byte 9 <= 0x20
byte 8 = byte 10 = 0x50

Given that the Host can bind with a variety of PSERVIC options,

KPR #: 4700667519 **CONTINUED**

SNA3179G must be notified of the BIND image so that it can set its primary and alternate partition sizes according to the BIND specification. Additionally, as SNA3179G requires, a notification of an UNBIND request (from the Host) also be sent from SNALink so that it can reset the partition sizes to their hardware default sizes when the LU-LU session is unbound.

To provide these notifications, a new "LU operation" is defined and packaged in the existing luib message format. The luib message would then make use of the following fields:

```

luop = SESCTRL      Session control LU operation
luopmod = BIND      For BIND notification
UNBIND              For UNBIND notification

```

request = pointer to an MU containing the BIND image.

Since this is a "notification" message, SNALink need not wait for a response to this message.

The following files have been changed to accommodate this defect:

```

File      Routine
----      -
h/cmscrstr.h
nuc/nuc/snasched.c      snasched()
                        dispr()
                        add sndsesctrlmu()
nuc/nuc/nuksutil.c      tooout()
nuc/csc/lusvcmgr.c      lussrcv()
                        vldtbind()
nuc/misc/tlfunc.c      logbindrej()

```

Signed off 12/14/88 in release A03.11

KPR #: 4700667576 Product: SNALINK 300/GW 36593A 03.10

One-line description:
Incorrect processing of COMM504 when in an SSCP-LU session.

Fix information:

A code change is made to comchk() in nuc/misc/comchk() such that when SNALink determines that the communication line is down, it generates a COMM 504 display code, sends it to the PS's, and sets the i_toggle of all luib's to UNOWNED.

When the session is UNOWNED, all keystrokes (data and AID keys)

- SNALINK 300/GW -

KPR #: 4700667576 **CONTINUED**

are rejected with X-f and X-f if cleared by the RESET key to blanks. LUWRITE attempt and all its subsequent results will fail since hitting ENTER, an AID key, will be rejected with X-f.

The code change works for COMM 504 check processing for both SSCP-LU sessions and LU-LU sessions.

Signed off 12/14/88 in release A03.11

KPR #: 4700667584 Product: SNALINK 300/GW 36593A 03.10

One-line description:

Incorrect generation display codes when COMM 504 occurs in LU-LU session

Fix information:

When a COMM 504 check occurs, the Nuc performs the following:

- * changes the session state to UNOWNED,
- * clears the System Area fields (display code CLRDONT),
- * sends the UNOWN status indicator to the PS (display code UNOWN),
- * sends the COMM 504 display code.

By sending the display code UNOWN before COMM 504, the System Area fields will be cleared, and thus, correct.

Signed off 12/14/88 in release A03.11

KPR #: 4700667618 Product: SNALINK 300/GW 36593A 03.10

One-line description:

Incorrect msg "sna3270 for LU X is being ordered to terminate."

Fix information:

The LU type 'sna3270' was hard-coded in the routine manage_fn(). Now a switch statement is added to print out the appropriate type for each LU in the manager kill message.

Signed off 12/14/88 in release A03.11

KPR #: 4700674499 Product: SNALINK 300/GW 36593A 03.10

One-line description:

snalink has snamchk226: :mchk_end: code:901 file:.../queue/dqeqmgr.c

Temporary solution:

CCC uses a line with the NSCONTINUE option. With this option, when the host goes down, they keep the NCP up and

- SNALINK 300/GW -

KPR #: 4700674499 **CONTINUED**

the line active. However, when the host comes backup, it will run a cold start, resetting everything, including the line which has been kept active. In doing that, the host floods SNALink with so many deactivation and activation frames, all expedited. SNALink dies, because it runs out of dispatching blocks used to store all these frames.

There is a workaround: shutdown the line properly when bringing the host down. The lab is investigating a solution to this problem.

Fix information:

The number of DOE's (dispatching structures) is increased as (NUMDEVS * 2), where NUMDEVS is 64. By doing this, SNALink is able to handle all the activations and deactivations frames that the host sends it after a host IPL.

Signed off 12/14/88 in release A03.11

KPR #: 4700733758 Product: SNALINK 300/GW 36593A 03.20

One-line description:
SNALink install script fails on AXE systems which lack /usr/bin/id

Fix information:

To allow the script to function properly on both regular and AXE HP 9000 / S300 systems the use of /usr/bin/id has been replaced by /usr/bin/whoami. The program /usr/bin/whoami is automatically installed on all S300 systems; consequently, the install script will function properly on these systems.

Signed off 02/07/90 in release A03.21

KPR #: 4000091660 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
Typing very fast may cause characters to be lost or garble command line

Problem:
SoftPC was losing track of characters

Cause:
Most likely cause is that the character buffer was being overflowed before it could be checked by SoftPC.

Fix information:

This problem has been retested on SoftPC 2.0 and no longer exists.

KPR #: 4000091678 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
function keys do not work with evelys word program

KPR #: 4000091710 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
superkey version 1.11 does not work with soft pc

KPR #: 4000091728 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
cannot connect an HP-IB plotter to a com port

Problem:

HP 9000/360, HPUX 6.2, X11 A.00.01 SoftPC V1.3f (final) X11 version HP 7475A Plotter connected to low-speed HP-IB.

PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

SEVERE - I cannot connect a HP-IB plotter to a COM PORT. After assigning a COM port to the device file, the COM/LPT setup panel disappears but SoftPC locks up. The portion of the screen where the COM/LPT menu had existed was blank, and SoftPC would not accept any keyboard or mouse input. If I kill the SoftPC process and start a new status is completely blank (not even the SoftPC logo was there.) I had to remove the offending lines from my .SoftPC file to get SoftPC running again.

The device file had the following attributes:

KPR #: 4000091728 **CONTINUED**

crw-rw-rs 1 root other 21 0x070400 /dev/plt

SPECIAL NOTE: If I assign the plotter to a LPT port, SoftPC accepts it without complaints. However, I did not try to plot any data.

Cause:
The problem was caused by SoftPC 1.3 and has been corrected in SoftPC 2.0

Fix information:

The problem was fixed by a code change in SoftPC 2.0.
Caused by trying to treat /dev/dev as a serial device, even though it's an HPiB device. Added extra call to 'isatty()' as an extra check, HPiB devices are treated as files now.

KPR #: 4000091736 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

"MS Learning DOS" hangs softpc just after start up. SCR160

Problem:

S800 running SoftPC on X11, and on a 2393 terminal and on s360 running X11 and on 2393 terminal.

PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

MS Learning DOS

We tried to run Microsoft's "Learning DOS" package. The program starts up but softpc will hang just after the introduction. This problem is easy to reproduce and is very consistent.

The problem is with the "Lessons for Systems" part and not with the "DOS Quick Reference" part.

Cause:

The problem was caused by some incompatibility in SoftPC.

Fix information:

This was fixed in the SoftPC 2.0B release.

KPR #: 4000091926 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

caps lock key must be pushed twice to change state.

Problem:

CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problems occurs.) s800 running X11, s360 running X11

- SOFT PC FOR 9000/300 -

KPR #: 4000091926 **CONTINUED**

PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

This seems to be an x11 bug.

The caps lock key must be pushed twice to change state.

Cause:

There was a problem with the X window/ SoftPC interface.

Fix information:

This was fixed with SoftPC 2.0 B.

KPR #: 4000091934 Product: SOFT PC FOR 9000/300 98870A 00.00

Keywords: SOFT PC

One-line description:

sidekick does not work in CGA mode

KPR #: 4000091983 Product: SOFT PC FOR 9000/300 98870A 00.00

Keywords: SOFT PC

One-line description:

SoftPC Comm ports do not have eight bit parity capabilities

KPR #: 4000091991 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

soft PC does not assign colors correctly, SCR254

Problem:

There was a problem in the X color assignments.

Cause:

There were errors in the X color assignments.

Fix information:

This was fixed in SoftPC 2.0.

KPR #: 4000092015 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

copying from com1 to a file doesn't work correctly, SCR246

Problem:

122) CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)

SoftPC V1.3 (final Nov-11-88 release)

- SOFT PC FOR 9000/300 -

KPR #: 4000092015 **CONTINUED**

13) PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

DEGRADE - Running "copy com1 file" to read input from a terminal and copy it to a file does not work properly. After entering input from the terminal and hitting ctrl-2, I noticed the file was over 50,000 bytes long. I didn't type that much! It appears like many garbage characters are being stuffed into the file. (I did not test this on an XT.)

To duplicate:

1. Connect terminal to s300 or s800 machine
2. Assign the tty file to a COM port
3. Run MODE to set communications link
4. Run COPY COM1 FILE

Cause:

There is an incompatibility in the comm. port emulation.

Fix information:

This was fixed in the SoftPC 2.0B release.

KPR #: 4000092023 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

word perfect graphics conversion locks up softpc, graphcnv.exe, SCR251

Problem:

12) CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)

s300 workstation and v-11-88 release)

s800 system with SoftPC running over lan to s350 workstation

(Donna Griffiths verified)

13: PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

Word Perfect 5.0

Word Perfect has a stand alone program "GRAAPHCNV>EXE" which converts various graphics files, ie: HPGL, TIFF, PCX etc. to Word Perfect format (*.WPG). This program will lock up SOFTPC to the extent it has to be rebooted.

The HPG1 files I tried can be incorporated into a document when running WP>EXE. The translation gets done properly.

14: DOCUMENTATION (List supporting documentation included with this report.)

- SOFT PC FOR 9000/300 -

KPR #: 4000092023 **CONTINUED**

None.

Cause:
There is an incompatibility in the SoftPC emulation.

Temporary solution:

The user may use the built in graphics conversion facilities of WordPerfect to get around this problem.

Fix information:

This problem fixed with SoftPC 2.0B final release.

KPR #: 4000092049 Product: SOFT PC FOR 9000/300 98870A 00.00

Keywords: SOFT PC

One-line description:

Color Graphics refresh is slow on Falcon game, SCR143

Signed off 10/11/89 in release A02.00

KPR #: 4000092056 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

setup panel highlights random characters, SCR214

Problem:

12) CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)

HP 9000/360, HP-UCK 6.2, X11 A00.01, SoftPC V1.3f (final) x11 version

13) PROBLEM DESCRIPTION (Includes hardware, symptoms, what you were trying to do, what went wrong, and other helpful information.)

MINIMAL - When using the COM/LPT setup panel, random text edit entries get highlighted.

14) DOCUMENTATION (List supporting documentation included with this report.)

Cause:

The graphics interface has a problem with highlighting.

Fix information:

This is fixed in SoftPC 2.0.

KPR #: 4000092072 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

full ibm character set is not correctly implemented

- SOFT PC FOR 9000/300 -

KPR #: 4000092072 **CONTINUED**

Problem:

12) CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.) SoftPC running on s350 workstation.

13) PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

While checking the DOS NLS support I found that some international characters were not mapped correctly. Upon further investigation I found three other characters that were not exactly mapped to the IBM PC character set. I used the program printc.exe to print out the entire character set and examine it. This program runs under DOS and if necessary, I will e-mail it to Insignia.

Cause:

Characters were not mapped properly.

Fix information:

This was fixed in SoftPC 2.0.

KPR #: 4000092098 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

all legal termcap ID's for the 2393 terminal are not recognized by Softp

Problem:

12) CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.) SoftPC running on s350 workstation using an 2397a terminal SoftPC running on an s835 with a 2397 terminal

13) PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

All the legal termcap ID's shown by "untic"ing the 2393 description file for all spc supported terminals need to be supported for term device drivers. Currently, this is a problem and hp2393a and hp2393a an hp2393A are unrecognized by SoftPC. We have gotten around this by modifying the initialization (dumbpc/spcterm) script. It should be fixed in the code for next versions. This has been officially requested in HP/SPC Comm #59.

14) DOCUMENTATION (List supporting documentation included with this report.) None.

Cause:

The terminal startup script did not contain all valid names for the supported terminals.

Fix information:

- SOFT PC FOR 9000/300 -

KPR #: 4000092098 **CONTINUED**

The script has now been recognized as a necessity for SoftPC terminal startup due to problems setting up the terminal configurations. This problem has been fixed for SoftPC 2.0.

KPR #: 4000092106 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

garbage appears on screen when using model 700/44 terminal, SCR222

Problem:

12) CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.) SoftPC running on s350 workstation using an 70044 terminal

13) PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

When exiting SoftPC on the 70044 terminal garbage characters are echoed to the screen. The prompt must be returned before the next command is typed.

14) DOCUMENTATION (List supporting documentation included with this report.) None.

Cause:

There are a few garbage characters left after SoftPC exits the 700/44 terminal emulation.

Fix information:

The SoftPC exit was modified to include a few carriage returns so that the garbage would not be seen by the user. This is fixed for SoftPC 2.0.

KPR #: 4000092130 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

cursor doesn't track properly when running "Word Perfect", SCR250

Problem:

12) CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)

< A 350 running x11 with 16AMeg memory.

13) PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

> There is a cursor tracking problem when running WordPerfect version 5.0 under SoftPC. If, while editing a document, you hold down the arrow key > the cursor "warps" to its next destination invisibly. This makes it > very* difficult to reposition the cursor within a line. Somehow we > need to make it work like the edit widget's cursor under hpwm in x11.

- SOFT PC FOR 9000/300 -

KPR #: 4000092130 **CONTINUED**

>(This problem may be tied to the repeat key rate.)

14) DOCUMENTATION (List supporting documentation included with this report.)
None.

Cause:

The cursor tracking is poor.

Fix information:

This is fixed in SoftPC 2.0.

KPR #: 4000092148 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

Line drawing characters aren't mapped correctly

Problem:

12) CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)
SoftPC running on s350 workstation using an 2397a terminal
SoftPC running on s835 with 2397 terminal

13) PROBLEM DESCRIPTION (Includes environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)
The line drawing graphics characters are mapped as can be seen by examining SK ascii tables. The problem arises due to the lack of sufficient double line line drawing characters. The characters that are mapped are IBM PC:0xc7, 0xbd and 0xcd these are easily remapped to the thick line equivalents giving a more consistent "look" to the result.

14) DOCUMENTATION (List supporting documentation included with this report.) None.

Cause:

Some characters are mismatched.

Fix information:

This is fixed in SoftPC 2.0.

KPR #: 4000092205 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

Cannot connect HP1B printer to comm port properly, SCR220

Problem:

CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)
HP 9000/360 HPUX 6.2 X11 A.00.01, SoftPC V1.3f (final) x11 version
HP 7475A Plotter connected to low-speed HP1B.

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KPR #: 4000092205 **CONTINUED**

PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong and other helpful information.)

SEVERE - I cannot connect a HP1B plotter to a COM port. After assigning a COM port to the device file, the COM/LPT setup panel disappears but SoftPC locks up. The portion of the screen where the COM/LPT menu had existed was blank, and SoftPC would not accept any keyboard or mouse input. If I kill the SoftPC process and start a new one, DOS boots ok but again SoftPC locks up. Also, the right-hand status is completely blank (not even the SoftPC logo was there.) I had to remove the offending lines from my SoftPC file to get SoftPC running again.

The device file had the following attributes:

crw-rw-rw 1 root other 21 0x070400 /dev/plt

SPECIAL NOTE: If I assign the plotter to a LPT port, SoftPC accepts it without any complaints. However, I did not try to plot any data.

Cause:

The printer could not be attached, it seems to be a problem with the way SoftPC checks device permissions.

Fix information:

Fixed with SoftPC 2.0.

KPR #: 4000093656 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

softpc kills the bell and autorepeat in x11

Duplicate Service Requests: 4000092080

KPR #: 4000093674 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:

softpc will not work properly with some types of reparenting windowmgr

Problem:

SoftPC does not conform to ICCM and will not work correctly with reparenting window managers. In particular, submenus text edit fields (like Setup Disk Drives) do not permit input to be typed.

Cause:

SoftPC was developed using UWM and so it was not designed to work with reparenting window managers like HPWM.

Temporary solution:

The workaround is to isolate the SoftPC editing box on the screen. Move every other window out of its way so that none overlap and then

- SOFT PC FOR 9000/300 -

KPR #: 4000093674 **CONTINUED**

you will be able to edit the configuration using the user interface.
(it will let you write into the interface boxes then)

Fix information:
This was fixed with the final SoftPC 2.0B release.

KPR #: 4000093690 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
reassigning devices will lock up soft pc

Problem:
Reassigning devices (especially when running an application) will lock up SoftPC. SoftPC needs to be restarted automatically as the menu claims.

Cause:
This is probably caused by a problem with the device assignment.

Fix information:
The problem has been fixed in SoftPC 2.0 final release.

KPR #: 4000093708 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
/usr/bin/dosis incorrectly specifies volume labels as filenames

Problem:
The problem was that the dosls/dosll command could not differentiate between the volume labels and filenames.

Cause:
There was no code in the dosls/dosll command implementation to distinguish between volume labels and filenames.

Fix information:
The fix was to add a module to the dosls/dosll command to distinguish volume labels and filenames.

Signed off 01/29/90 in release A02.00

KPR #: 4000093757 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: DOCUMENTATION

One-line description:
using softpc p 3-4 implies all home directories in /users.

Problem:
The documentation was misunderstood in the SoftPC 1.3 manual.

- SOFT PC FOR 9000/300 -

KPR #: 4000093757 **CONTINUED**

Temporary solution:
The user may call support to clarify the issue.

Fix information:
The documentation has been expanded and clarified for SoftPC 2.0.

KPR #: 4000093765 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: DOCUMENTATION

One-line description:
using slave pc section p.4-21 configuration info inadequate.

Problem:
"Using SLAVEPC" section of chapter 4 (page 4-21) is inadequate for proper configuration of SlavePC.

Temporary solution:
The user may call support for more information.

Fix information:
The documentation has been updated and expanded for SoftPC 2.0.

KPR #: 4000093781 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
pages A-2 and A-4 "using soft pc: should not refer to the DOS coprocessor

Problem:
"Using SoftPC" manual pages A-2 and A-4 refer to the DOS coprocessor.

Temporary solution:
The user may call support if they are confused by this.

Fix information:
The documentation has been updated for SoftPC 2.0.

KPR #: 4000094904 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:
Turbo Prolog under CGA emulation broken.

Problem:
When using Turbo Prolog if you zoom the edit window, the program will malfunction.

Cause:
The problem only occurs when you zoom the edit window. It seems to work fine for everything else.

Temporary solution:

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KPR #: 4000094904 **CONTINUED**

Workaround is to use Hercules emulation or never zoom the edit window to be full screen. Zooming the edit window is very common since editing on a 3x5 card is painful.

Fix information:

The problem is fixed with SoftPC 2.0.

Signed off 01/31/90 in release A02.00

KPR #: 4000094912 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:
ExecutiveMemomaker won't work. Too many file handles. config.sys OK.

Problem:

Executive Memomaker will not run, it fails with the message "too many file handles."

Cause:

There is an incompatibility in the SoftPC emulation.

Temporary solution:

The workaround is to install Memomaker on either drive C: or drive D: where it works fine. The only problems are encountered when using it on the E:, or FSA, drive.

Fix information:

This problem was fixed in the final SoftPC 2.0B release.

Signed off 01/29/90 in release A02.00

KPR #: 4000094920 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:
Drawing Gallery drops character when entering a text string.

Problem:

When entering text strings into Drawing Gallery a character may sometimes be lost.

Cause:

This happens when the input character buffer gets confused/overflowed.

Fix information:

This has been fixed for SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095026 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:

Cannot install Lotus 123 using SlavePC, SCR100

Problem:

KPR #: 4000095026 **CONTINUED**

When you do a series of installing and deinstalling Lotus 123, using SlavePC, onto the hard disk, it gives random bug codes. This will cause you to lose the install from the Lotus hard disk and will sometimes hang SoftPC.

Cause:

This was caused by problems with the SlavePC emulation.

Fix information:

Fixed by final SoftPC 2.0 release.

Signed off 01/29/90 in release A02.00

KPR #: 4000095034 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:

Mouse user interface is unfriendly, can be hard to use, SCR55, SCR163

Problem:

The middle mouse button is "captured" by SoftPC and thus cannot be used by applications like WP; this should be changed so that SoftPC will allow the pc software to get the mouse signals unless the mouse is in the right hand control panel. When the mouse is in the control panel the mouse should be able to be unattached using the toggle switch.

Cause:

The problems are caused by the design of the user interface.

Fix information:

May be fixed in a future release.

KPR #: 4000095042 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:

Escape character does not exit demo mode properly MS Flight Sim., SCR161

Problem:

If you enter ESC to exit demo mode, you should switch to graphics mode 40 and the aircraft data should be displayed, however the 40 characters only cover the left hand side of the screen.

Cause:

There is a graphics incompatibility with SoftPC.

Fix information:

This was fixed with SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095059 Product: SOFT PC FOR 9000/300 98870A

01.03

One-line description:
Sailing game will not run, encounters illegal instruction.SCR168

Problem:
Sailing game will not run; encounters illegal instruction.

Fix information:
May be fixed in a future release.

KPR #: 4000095067 Product: SOFT PC FOR 9000/300 98870A

01.03

One-line description:
Advance Link won't install from floppy drive A:,SCR170

Problem:
When you try to install from the A: floppy drive as instructed and run the install program "c:\advancelink", it starts up and tells you to press "return" to install or "esc" to escape. Pressing return causes it to hang up and you cannot escape, however, the menu windows still work.

Cause:
The problem was the program IBMWAIT.COM invoked from INSTALL.BAT. It is supposed to wait for <cr> or <esc> but just hangs.

Fix information:
This problem was fixed in the SoftPC 2.0 final release.
Signed off 01/29/90 in release A02.00

KPR #: 4000095075 Product: SOFT PC FOR 9000/300 98870A

01.03

One-line description:
The SoftPC cursor was the wrong color with some applications.SCR42

Problem:
SoftPC cursor is the wrong color (blue!). Its ok on a monochrome screen.

Cause:
There was a problem with color mapping.

Fix information:
This was fixed in SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095083 Product: SOFT PC FOR 9000/300 98870A

01.03

One-line description:
Graphics problems with text in pc mode 40, with Willy game.SCR102

Problem:
When you go to put your name into the score board, after the game is over, it shows half the screen with text, the other half with

- SOFT PC FOR 9000/300 -

KPR #: 4000095083 **CONTINUED**

half the game on it. The text should be in mode 40.

Cause:
There were problems in the video emulation.

Fix information:
This was fixed for SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095091 Product: SOFT PC FOR 9000/300 98870A

01.03

One-line description:
Problems updating complete screens of video memory,SCR167

Problem:
When painting to pages 1 and 4 of video memory the complete screen was not updated, refreshing the screen cured the problem.

Cause:
There is some incompatibility in the SoftPC graphics emulation.

Temporary solution:
The workaround is to refresh the screen.

Fix information:
This was fixed in the SoftPC 2.0 release.
Signed off 01/29/90 in release A02.00

KPR #: 4000095109 Product: SOFT PC FOR 9000/300 98870A

01.03

One-line description:
Round42 game has slow and bad graphics.SCR169

Problem:
Graphics are slow and are not working correctly.

Fix information:
May be fixed in a future release.

KPR #: 4000095117 Product: SOFT PC FOR 9000/300 98870A

01.03

One-line description:
PrintMaster program will not run from the FSA drive, E:,SCR172

Problem:
When you first run Printmaster and create a greetings card and try to save it with no name, the screen fills with funny characters. But if you press "ESC" twice you can get back to the option of saving it over again. The second time you try to save it with no name Printmaster says "I'm having trouble using the disk."

Cause:
There is some incompatibility with the SoftPC emulation.

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KPR #: 4000095117 **CONTINUED**

Fix information:

This has been fixed with SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095448 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:

Mouse attached to Smalltalk V Application is inoperative

Problem:

I just installed SoftPC Rev 1.3 from the distribution tape, and encountered some problems:

I tried to run Smalltalk V, by Digital. Smalltalk V is very graphics intensive, and is optimized for use with a mouse. When I tried to attach the mouse, using the SoftPC button or the middle mouse button menu selection to attach the mouse, the SoftPC mouse button lit up, showing that the mouse was attached to the Smalltalk application. However, there was no mouse sprite (cursor) shown. If I moved the mouse rapidly out and back into the SoftPC window, I could see the X11 mouse cursor appear and disappear. But was unable to use the mouse in the Smalltalk V application, no matter what I tried.

Fix information:

May be fixed in a future release.

KPR #: 4000095455 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:

Crosstalk XVI doesn't work with PC bulletin board yellow pages, SCR#162

Problem:

If you use the modem an Crosstalk, and connect to Electronic Yellow pages it asks you for a login. This should be 3264 in this case, but when it was entered the characters appeared as 3161. This happened all the time. Although crosstalk seems ok with all other bulletin boards.

Fix information:

May be fixed in a future release.

KPR #: 4000095463 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:

Graphics problem with Typ-Set, bad characters and backgrounds, SCR#86

Problem:

On the C drive when you start up TYP-SET, it draws the following: "Sweet-P", whereas on FSA it draws a mess from the corner of the screen. However, on both occasions it leaves the first screen, in blue, on the background when you enter the actual package.

KPR #: 4000095463 **CONTINUED**

Cause:

There was a graphics incompatibility in SoftPC.

Fix information:

This was fixed in SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095505 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:

The scenery flashes when using MS Flight Simulator, SCR205

Problem:

The scenery flashed when using flight simulator due to slow graphics refreshes.

Cause:

This was primarily caused due to the slow performance of graphics in SoftPC 1.3.

Fix information:

SoftPC 2.0 has greatly improved graphics capability and so does not cause the scenery to flash as obviously during updates.

Signed off 01/29/90 in release A02.00

KPR #: 4000095588 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:

MS Windows does not list files selectively with WIN DRAW command, SCR202

Problem:

When you run "WIN DRAW" and select a file to draw, it should show only *.PIC files. Instead it shows all types including *.EXE, & *.TXT files. This is also on the s800. This happens on FSA only.

When you run "WIN DRAW" and select a file to draw, it should show only *.PIC files. Instead it shows all types including *.EXE, & *.TXT files. This is also on the s800. This happens on FSA only.

Cause:

This is caused by problems with FSA/HFX HP-UX filesystem access.

Fix information:

This is fixed in SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095695 Product: SOFT PC FOR 9000/300 98870A

01.03

One-line description:
The right hand alt key doesn't work, SCR232

Problem:
The right hand alt key on the console keyboard using the X11 version does not work.

Cause:
There is an omission from the X11 keyboard mapping file.

Fix information:
The X11 keyboard mapping file was updated for SoftPC 2.0.

KPR #: 4000095810 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:
Crosstalk XVI has timing problems, SCR162

Problem:
SoftPC was connected to a real PC and XTALK CALL was entered. XTALK ANSWER was entered on the PC. Then two files were sent at the default settings. Change speed to say 1200 baud, send two more files and quit Crosstalk from SoftPC, but leave the PC running. You can then enter a few characters after which SoftPC will hang. A number of keyboard or mouse actions cause the window to disappear as the Xserver is not getting in to clear the event queue. Note that if you quit Crosstalk from the PC first then the problem doesn't arise.

Fix information:
May be fixed in a future release.

Signed off 01/29/90 in release A02.00

KPR #: 4000096206 Product: SOFT PC FOR 9000/300 98870A 01.03

One-line description:
executing cat890511.exe from hpccf gets "CRC Error" (works on XT)

Problem:

Here is the exact sequence to get the file from hpccf and cause a failure. This failure is slightly different from the one with cat90511.exe:

```
$ ftp hpccf
Connected to hpccf.
Name (hpccf:ftp): ftp
Password (hpccf:ftp): abc
331 Guest login ok, send ident as password.
230 Guest login ok, access restrictions apply.
ftp> cd VECTRA-IBM
200 CWD command okay.
```

- SOFT PC FOR 9000/300 -

KPR #: 4000096206 **CONTINUED**

```
ftp> bin
200 Type set to I.
```

```
ftp> get new90511.com
200 PORT command okay.
150 Opening data connection for new90511.com (15.1.104.2,1609) (9072 bytes).
226 Transfer complete.
9072 bytes received in 3.45 seconds (2.57 Kbytes/sec)
```

```
ftp> quit
221 Goodbye.
$
```

Then in the SoftPC window do:

```
E:\>new90511
LHarc's SFX 1.12bs (c)Yoshi 1989
```

890511.NEW .Write Error

E:\>

Again, if the file was cat890511.exe, the failure would be:

```
E:\>cat890511
LHarc's SFX 1.12bs (c)Yoshi 1989
```

.....CRC Error

E:\>

Cause:
The program is probably malfunctioning due to some emulation error in SoftPC.

Fix information:
Fixed in the final release of SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 5000463372 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
Soft PC does not understand local:0 DISPLAY variable

Problem:
Configuration: 360 with 6.5.

Soft PC requires that the display variable set to unix:0.0 not local:0.0 as documented in the 6.5 information. Soft PC will not come up unless the display variable is set correctly. This should be documented or

- SOFT PC FOR 9000/300 -

KPR #: 5000463372 **CONTINUED**

Soft PC should be recompiled on the 6.5 version of X Windows.

Cause:
The SoftPC was originally designed under HP-UX 6.2 which did not use local:0.0 as the display variable.

Temporary solution:
The workaround is to use "unix:0.0" as the display variable.

Fix information:
This has been fixed for SoftPC 2.0.

KPR #: 5000464107 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
Request:reposition window used to create new devices to avoid overlap

Problem:

The problem is that if any of the user interface menu windows is overlapping or overlapped by any other window, the user will not be able to write into it.

Cause:
The reason the windows cannot overlap any others is that SoftPC 1.3 was not developed to work with reparenting window managers such as HPWM.

Fix information:
This has been corrected for SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 5000474726 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
can't enter text into menu box when adding a new hard drive using menu

Problem:
The problem is that SoftPC 1.3 does not function well with some reparenting window managers.

Cause:
The cause of the problem is that SoftPC cannot get access into the menu windows due to conflicts with the window manager.

Fix information:
This defect has been fixed in SoftPC 2.0. The 2.0 version will now function properly with reparenting window managers, such as hpwm.

Signed off 01/29/90 in release A02.00

- SOFT PC FOR 9000/300 -

KPR #: 5000527143 Product: SOFT PC FOR 9000/300 98870A 01.03

Keywords: SOFT PC

One-line description:
Lotus, Work Perfect will not work with drive e on SPC 1.3

Problem:

The problem with Lotus 123 version 2.2 has been investigated and found to occur with SoftPC 2.0 on drive E:. Files can be created on the E: drive, but they cannot be subsequently accessed. The Lotus 123 version 2.01 can access these files with no problems nor does it have any other problems on drive E. This is being worked on now.

The WordPerfect problem was investigated and due to insufficient detail (i.e. no version numbers, no display information (i.e. ega, cga or hga) and no exact package name information) the following packages were tested: WordPerfect 5.1, WordPerfect 5.0, WordPerfect Office 2.0. No problems were found with any of these packages when accessing drive E:. Thus, we need further information to define the WordPerfect problem.

Cause:

This problem was caused by Lotus 2.2 making a call to a new networking function of MS DOS. The particular call was not handled properly and so the file could not be accessed when using the E: drive (which appears as a networked drive to SoftPC.)

Temporary solution:

The workaround to this defect is to use Lotus on either drive D: or C:. Otherwise, Lotus 2.01 may be used on any of the available hard disk files, it works properly on all of them.

Fix information:

This was fixed by updating the SoftPC handling of MS DOS network calls.

- SOFT PC FOR 9000/300 -

KPR #: 4700887851 Product: SOFT PC FOR 9000/300 98870B

02.00

One-line description:

Mouse driver: current version is old/doesn't work properly w/new apps.

Problem:

Mouse driver obsolete

Temporary solution:

The workaround is to install one of the newer device drivers included with some of the software packages. The MS Word 5.0 package provides a mouse driver, mouse.sys, that can be installed using the config.sys program as follows.

Add the following line to the config.sys.
device=mouse.sys

Using this workaround, the mouse seems to work properly.

- SOFT PC FOR 9000/300 -

KPR #: 4000096396 Product: STARBASE RAD & RAY 98885A

01.00

One-line description:

render_scene gives incorrect error message for unclosed trim curves

Problem:

The "improper parameter message" should be changed to something more meaningful.

Cause:

At the time of release, a meaningful error message did not exist in the error catalog.

Fix information:

A new error message has been added to the error catalog. "Improper parameter value" now reads "Cannot perform this operation if trim curves are not closed". The new error message was added to version B.02.00.

KPR #: 4000096412 Product: STARBASE RAD & RAY 98885A 01.00

One-line description:

Objects disappear when they are placed exactly on the hither plane.

Problem:

The ray tracer starts exactly on the hither plane. When a polygon is intersected, if it occurs within a certain epsilon of the origin of the intersection, it is rejected. The problem only occurs if a polygon is exactly on the hither.

Temporary solution:

The user can work around this problem by making sure that all objects are within the clipping volume. The easiest way to do this is to adjust the clipping volume with a call to view_camera.

Fix information:

Because the frequency of the problem is so low, and because the problem can easily be avoided, it is viewed as an enhancement request, not a defect.

KPR #: 4000096438 Product: STARBASE RAD & RAY 98885A 01.00

One-line description:

Radiosity shadows not computed for extremely small environments.

Problem:

The problem resulted from the fact that the ray tracing shadow test had to move off the surface to avoid self-intersection and to avoid intersecting other polygons that the touch the surface at the vertex from which the ray is being shot.

Temporary solution:

This problem can be avoided by scaling the data to larger values.

Fix information:

- STARBASE RAD & RAY -

KPR #: 4000096438 **CONTINUED**

The shadow testing algorithm has been modified in Version B.02.00, eliminating the problem.

KPR #: 4000096446 Product: STARBASE RAD & RAY 98885A 01.00

One-line description:

False shadows are produced at some polygon vertices

Problem:

The ray tracing shadow tests, used in radiosity, were incorrectly setting an epsilon value for vertices along the exterior boundaries of polygons.

Fix information:

The shadow testing algorithm in radiosity has been revised. The new algorithm eliminates the problem. The problem has been fixed in version B.02.00.

KPR #: 4000096461 Product: STARBASE RAD & RAY 98885A 01.00

One-line description:

Complex polygons may get holes punched in them.

Problem:

In very complex polygons with lots of overlapping holes and edges, extra loops are created by the mesher that shouldn't be there. It is unlikely that this type of polygon would be encountered by users.

Temporary solution:

This is expected to be a corner case, that will appear only with certain types of data. Which data cause this problem is not well categorized. In some cases the user may be able to generate the same shape using different data which avoids the problem.

Fix information:

The mesher has been modified for Version B.02.00.

Signed off 01/30/90 in release B02.00

KPR #: 4000096479 Product: STARBASE RAD & RAY 98885A 01.00

One-line description:

"Invalid global environment id" should read "Invalid scene id"

Problem:

"Global environment" should read "scene".

Cause:

The error message catalog was worded incorrectly.

Fix information:

The global environment error message has been replaced in Version B.02.00.

KPR #: 4000097113 Product: STARBASE RAD & RAY 98885A 01.00

One-line description:

Facets disappear in some ray traced spline surfaces.

Problem:

Facets disappear in ray trace of certain spline shapes

Temporary solution:

The problem can be somewhat alleviated by scaling down the spline surface by a factor of 1000.

Fix information:

This problem will be fixed in the next revision.

Signed off 01/30/90 in release A01.01

KPR #: 4000097121 Product: STARBASE RAD & RAY 98885A 01.00

One-line description:

Facets have "acne" in ray trace of certain spline surfaces

Problem:

Surfaces have "acne" in ray trace of certain spline surfaces.

Fix information:

This problem will be fixed in the next revision.

Signed off 01/30/90 in release A01.01

KPR #: 4000097139 Product: STARBASE RAD & RAY 98885A 01.00

One-line description:

Gamma correction causes a crash for backgrounds and flat shade items.

Problem:

Gamma correction causes a crash for backgrounds and flat shade items.

Fix information:

This problem will be fixed in the next release.

Signed off 01/30/90 in release A01.01

KPR #: 4000097147 Product: STARBASE RAD & RAY 98885A 01.00

One-line description:

Facets get shadowed when radiosity done on specific spline surface

Problem:

Facets get shadowed on particular spline surfaces.

Fix information:

May be fixed in a future release.

Signed off 01/30/90 in release A01.01

Known Problem Reports as of 07/23/90

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KPR #: 4000097154 Product: STARBASE RAD & RAY 98885A

01.00

One-line description:

When a trimming curve is applied to certain spline surfaces edges drop

Problem:

When a trimming curve is applied to a spline surface sometimes the edge drops out.

Fix information:

This problem will be fixed in the next revision.

Signed off 01/30/90 in release A01.01

KPR #: 4000098533 Product: STARBASE RAD & RAY 98885A

01.00

One-line description:

Intensities per/vertex not blended correctly on meshed polygons.

Problem:

The intensities per/vertex not blended correctly on meshed polygons.

Fix information:

May be fixed in a future release.

Known Problem Reports as of 07/23/90

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KPR #: 4700823310 Product: X.25/300 LINK 36941A

02.00

One-line description:

Data corruption may happen under very rare Reset conditions

- STARBASE RAD & RAY -

- X.25/300 LINK -



ALLBASE/HPTODAY

Software Status Bulletin



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SSB ISSUE DATE: 07/16/90

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KPR #: 1650116715 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:
Screen behaviour is messy.

KPR #: 1650118083 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:
ALLBASE/4GL Dumps Core when -l option used without logoname.

KPR #: 1650118109 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:
HP ALLBASE/4GL via SQL converts negative 0's to postive 0's.

KPR #: 1650119115 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:
HP ALLBASE/4GL Background Process abort after completing.

KPR #: 1650122507 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:
Final Formfeed not generated when printing to local printer with product

KPR #: 1650128660 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:
Syntax error in HP ALLBASE/4GL when using the SQL 'in'command.

KPR #: 1650130393 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:
Reports to the Screen cannot be stopped before completion elegantly.

KPR #: 1650130971 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.11

One-line description:
Seven or more LIKE commands in SQL Logic Block causes generation errors.

KPR #: 5000534818 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 00.00

One-line description:
Repeated Times Field set to 99 in Work Area cause Internal Error 17020.

Temporary solution:
Recommended current workaround is the reduce the "repeated times"
field to 98.
Tricia Matsoukas

KPR #: 5000549790 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:
INTERNAL 4GL ERROR on data screen with no input or display fields.

Temporary solution:
WORKAROUND: Define a blank display item on the data screen.
Tricia Matsoukas

KPR #: 5000550228 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:

Boldface test isn't turned off when exiting HP ALLBASE/4GL.

Temporary solution:

The problem has been verified at ASO and a work around is available.

The work around is to echo the terminal reset control character in the users .kshrc/.cshrc as well as at the end of the users HP ALLBASE/4GL startup script.

KPR #: 5000558080 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.09

One-line description:

Documentation does not accurately describe how after functions execute.

KPR #: 9061000695 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:

Generating the LINK command causes bus error in some situations.

Signed off 04/26/90 in release B02.00

KPR #: 9061000745 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:

Versions cannot find SQL modules created in base applications

Signed off 04/04/90 in release B01.10

KPR #: 9061000786 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:

Random data in errno variable if read error during loading appln.

KPR #: 9061000794 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:

Wrong "Invalid date detected" message from ranges screen.

KPR #: 9061000802 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.01

One-line description:

Cannot input Kanji Characters and 8-bit Katakana Characters.

KPR #: 9061000984 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:

Long strings are not stored in SQL database correctly

KPR #: 9061000992 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:

Double quote marks in a report corrupts the report.

Signed off 05/28/90 in release B01.08

KPR #: 9061001008 Product: ALLBASE/4GL/UX ALLBASE/4GL/UXB 01.00

One-line description:

Setting LANG=german truncates 123.45 to 123.00 in decimal field

Signed off 05/28/90 in release B01.01

KPR #: 5000541490 Product: ALLBASE/QUERY/800 92534B 00.01

One-line description:

Outputting to Local Printer from QUERY using AdvanceLink fails to print.

KPR #: 1650100974 Product: HPTODAY HPTODAYA 02.00

One-line description:

Problems with 'Data Type Conversions' between SQL and HPToday

KPR #: 1650111328 Product: HPTODAY HPTODAYA 02.00

One-line description:

Primary data movement on fields isn't working correctly.

KPR #: 5000476242 Product: HPTODAY HPTODAYA 02.00

One-line description:

Problem inserting NULL value into SQL table from HP TODAY

KPR #: 5000492710 Product: HPTODAY HPTODAYA 02.00

One-line description:

[Previous Menu] gives unpredictable results: screen called by function

KPR #: 5000499061 Product: HPTODAY HPTODAYA 02.00

One-line description:

Problem generating SQL Logic Blocks

KPR #: 5000499145 Product: HPTODAY HPTODAYA 02.00

One-line description:

Internal HPToday error using DEFINE statement

KPR #: 5000499152 Product: HPTODAY HPTODAYA 02.00

One-line description:

Last 4 'Catalog Printing' screen fields don't show after INSERT LINE key

KPR #: 5000552984 Product: HPTODAY HPTODAYA 01.00

One-line description:

HP ALLBASE/4GL on MPE XL did not make the time change with system.

KPR #: 4700429621 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

Visor permanently overwrites function key values.

Signed off 04/04/90 in release A01.01

KPR #: 4700432062 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

Cannot print report to lp with permissions set for spooler.

Signed off 04/04/90 in release A01.01

KPR #: 4700432401 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

Visor temp files in the same directory aren't unique.

Signed off 04/05/90 in release A01.01

KPR #: 4700432674 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

Break key causes visor to abort.

Signed off 04/05/90 in release A01.01

KPR #: 4700433805 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

Insert char key causes wrong message to be printed.

Signed off 04/05/90 in release A01.01

Duplicate Service Requests: 4700433771

KPR #: 4700433813 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

Delete line key inserts 'M' into the text to edit.

Signed off 04/05/90 in release A01.01

KPR #: 4700433946 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

Untrapped integer overflow errors cause visor to die.

Signed off 04/05/90 in release A01.01

KPR #: 4700434043 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

Exponential notation not displayed properly.

Signed off 04/05/90 in release A01.01

KPR #:	4700434068	Product:	ALLBASE/QUERY/300	79727A	00.00
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One-line description:

Scrolling from DEFINE FIELDS screen causes segmentation error.

Signed off 04/05/90 in release A01.01

KPR #:	4700434076	Product:	ALLBASE/QUERY/300	79727A	00.00
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One-line description:

DEFINE FIELD fields are cleared on error condition.

Signed off 04/05/90 in release A01.01

KPR #:	4700434084	Product:	ALLBASE/QUERY/300	79727A	00.00
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One-line description:

Can't print report of selected tables.

Signed off 04/05/90 in release A01.01

KPR #:	4700435628	Product:	ALLBASE/QUERY/300	79727A	00.00
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One-line description:

Value range error when specifying value for float field.

Signed off 04/05/90 in release A01.01

KPR #:	4700438051	Product:	ALLBASE/QUERY/300	79727A	00.00
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One-line description:

Same column listed more than once on 'CHOOSE COLUMNS SCREEN'.

Signed off 04/05/90 in release A01.01

KPR #:	4700468462	Product:	ALLBASE/QUERY/300	79727A	00.00
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One-line description:

Spurious error message during connect to db.

Problem:

A file open error is encountered when an internal query is executed and the current user specified query extends beyond the tenth line of the SQL buffer. Visor fails to store and restore the user's query.

Cause:

The problem occurs when the user's SQL command extends beyond ten lines and therefore is temporarily stored in a file so that an internal query can be written into Visor's SQL buffer. The file name specified in the file open call was incorrectly truncated to 8 characters, in TSSPUT (also TINMAIN). The problem also occurs with nested scripts.

Temporary solution:

Confine SQL queries to the first nine lines of the SQL screen.

KPR #: 4700468462 **CONTINUED**

Fix information:

The fix will be in release 1.1 of Visor/300.

Signed off 04/05/90 in release A01.01

KPR #:	4700468488	Product:	ALLBASE/QUERY/300	79727A	00.00
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One-line description:

Visor alters the transmit field of term config and never resets it.

Cause:

Visior/300 does not use VPLUS so it does not need to alter the terminal's setting to transmit only Modified Fields. The problem with doing so, is that the user may later run another program which expects a terminal setting of transmit All Fields, and that program may not check or set the terminal setting.

Fix information:

Visor/300 no longer resets the terminal to transmit only modified fields. This fix is effective in release 1.1 of Visor/300.

Signed off 04/05/90 in release A01.01

KPR #:	4700468504	Product:	ALLBASE/QUERY/300	79727A	00.00
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One-line description:

The 'exit' doesn't use an exit from the visor command line.

Problem:

The Visor "exit" command does not work from the CHOOSE DBE SCREEN.
See sr#4700459602 for Visor/UX.

Cause:

TPAEZA incorrectly changes the return op code from TOP EXIT to TOP STAY.

Temporary solution:

Use function key F8.

Fix information:

Fix will be in release 1.1 of Visor/300.

Signed off 04/05/90 in release A01.01

KPR #:	4700468512	Product:	ALLBASE/QUERY/300	79727A	00.00
--------	------------	----------	-------------------	--------	-------

One-line description:

Long dbf pathnames causes segmentation violation during 'connect..'

Problem:

See sr#4700461749 for VISOR/UX.

Cause:

In TEXSQL, when it was determined that the command was a connect

KPR #: 4700468512 **CONTINUED**

statement, the program attempted to move the entire DBE Name (from single quote to single quote) into TMB TBE which has a length of 28 chars. If the DBE Name specified was longer than 28 chars, memory was overwritten.

Fix information:

Visor can now store up to 128 characters for the name of the current DBE. This fix is in release 1.1 of Visor/300.

Signed off 04/05/90 in release A01.01

KPR #: 4700546184 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

SQLAccess: COMMIT WORK RELEASE should not allow next commands to execute

Problem:

The following commands when issued from the SQLACCESS screen do not release the DBEnvironment:

ROLLBACK WORK RELEASE;
COMMIT WORK RELEASE;

Cause:

When the RELEASE keyword is part of another SQL command, HP SQL does not execute the release. The interface layer (ISQL, Visor) must explicitly execute a RELEASE following the execution of the SQL command. The RELEASE keyword is recognized in TJUCALL, and the RELEASE command is issued in TCOEDIT.

Fix information:

Fixed in Rel. 1.3.

Signed off 04/05/90 in release A01.03

KPR #: 4700547802 Product: ALLBASE/QUERY/300 79727A 00.00

One-line description:

Blank field header going to EDIT STATISTICS causes traceback error.

Problem:

A bounds violation occurs when a field header is blank and the user transfers to the EDIT STATISTICS screen.

Cause:

When the blank field header is scanned for non-blanks, the index is decremented below zero. This non-zero value is passed to TUTMOVE. A negative value in TUTMOVE will cause the violation. Changed TUTMOVE to change a negative value to zero.

Fix information:

Fixed for REL 1.3.

Signed off 04/05/90 in release A01.03

Known Problem Reports as of 07/16/90

Page: 10

KPR #: 4700641084 Product: ALLBASE/QUERY/300 79727A

00.00

One-line description:

Selecting data causes a segmentation violation and core dump.

Problem:

The problem occurs when simply selecting all data from one of the user's tables. No criteria or joins are used.

Cause:

The cause for this defect occurring is not known.

Fix information:

A fix for this defect is available from support. Revision 1.3 of Visor does not reproduce the problem. This revision is not planned for general distribution at this time, however, a later revision will go out in early 1989 also containing the patch.

Signed off 04/05/90 in release A01.03

KPR #: 9061000422 Product: ALLBASE/QUERY/300 79727B 00.00

One-line description:

Averaging packed-decimal numbers of precision ≤ 8 gives negative result

Signed off 04/18/90 in release B01.03

KPR #: 9061000430 Product: ALLBASE/QUERY/300 79727B 00.00

One-line description:

Any calculation on a field of precision 16 yeilds an incorrect result

Signed off 04/18/90 in release B01.03

KPR #: 4700459354 Product: ALLBASE/QUERY/800 92534A 00.00

One-line description:

Printing fails from both SQLAccess and EZAccess without an error message

Cause:

The wrong buffer was being referenced in the system command in TFISPOOL.

Fix information:

The system call has been corrected to reference the correct buffer in version A.00.03.

Signed off 08/03/87 in release A00.03

KPR #: 4700459396 Product: ALLBASE/QUERY/800 92534A 00.00

One-line description:

Visor alters the Transmit value for terminal config w/o resetting it.

Cause:

Visor/UX does not use VPLUS so it does not need to alter the terminal's setting to transmit only Modified Fields. The problem with doing so, is that the user may later run another program which expects a terminal setting of transmit All Fields, and that program may not check or set the terminal setting.

Fix information:

The call to set the terminal to transmit only modified fields has been eliminated for Visor/UX (and Visor/300), with version A.00.03.

Signed off 08/03/87 in release A00.03

KPR #: 4700461160 Product: ALLBASE/QUERY/800 92534A 00.00

One-line description:

2 sequential system commands cause Visor to hang.

Problem:

The terminal is not being reinitialized as desired following the system command. Therefore, following a system command it is necessary to hit the return key after each function key to get a response. (The second system command has nothing to do with the problem).

Cause:

The problem seems to be associated with the compilers. Recompiling with a U5 pascal compiler eliminated the problem.

Fix information:

HP Visor/UX will no longer be built with the U4 Pascal compiler. The U5 compiler or later ones will be used starting with version A.00.03.

Signed off 08/03/87 in release A00.03

KPR #: 4700461749 Product: ALLBASE/QUERY/800 92534A 00.00

One-line description:

Long DBE path name causes segmentation violation when CONNECTing.

Cause:

In TEXSQL, when it was determined that the command was a connect statement, the program attempted to move the entire DBE Name (from single quote to single quote) into TMB TBE which has a length of 28 chars. If the DBE Name specified was longer than 28 chars, memory was overwritten.

Fix information:

This fix is in version A.00.03. If the DBENAME is longer than 28 characters, and the connect was made through SQLAccess, only the first 28 characters will be shown in the STATUS screen.

Signed off 08/03/87 in release A00.03

KPR #: 4700463026 Product: ALLBASE/QUERY/800 92534A 00.00

One-line description:

VIEW DATA from a non-DBA causes file system error.

Problem:

Visor is unable to open the temporary file containing the results of an internal select statement.

Cause:

In TUTGTAB, the procedure "ProcessGroups" was incorrectly opening the temporary file with a file size of 80. It should be 42. Also this same routine was doing an extra seek for each record read.

Fix information:

This is fixed with version A.00.03.

Signed off 08/03/87 in release A00.03

KPR #: 4700468587 Product: ALLBASE/QUERY/800 92534A 00.00

One-line description:

Visor does not correctly record user logins with numbers in them.

Problem:

Visor/UX (and Visor/300) incorrectly store the username when it contains a non-alpha character.

Cause:

Non-alpha characters in the username returned by the operating system are converted to blanks in Visor's username variable by TUTUSID.

Fix information:

Non-alpha characters will be stored in Visor's username variable, exactly as returned from the operating system. (Alpha characters are upper cased). Fix will be in version A.00.04 of Visor/UX.

Signed off 08/03/87 in release A00.04

KPR #: 4700472555 Product: ALLBASE/QUERY/800 92534A 00.00

One-line description:

Certain print options do not work.

Problem:

The Visor print command (entered on the Visor command line) does not work when the object to be printed in the profile, the current sql command, the current script or a named, saved item AND the output destination specified is '/dev/lp'.

Cause:

The cause is that the line to call TFISPOOL, which spools the item to the printer, is missing. The call to TFISPOOL for the Visor command 'print report' is located in a different routine and is ok.

Temporary solution:

The temporary work around is to set the output to a file. Printing all types of Visor objects work properly when being directed to a file. The file can then be printed using the system lp command.

Fix information:

The fix is in version A.00.05 of Visor/UX.

Signed off 08/03/87 in release A00.05

KPR #: 9061000505 Product: ALLBASE/QUERY/800 92534B 00.01

One-line description:

DEBUG RECORD ON 'file' terminates product when used on Main Menu.

Temporary solution:

The workaround is to start debugging on the Choose DBEnvironment Screen not the Main Menu.

Signed off 04/18/90 in release B01.03

KPR #: 9061000562 Product: ALLBASE/QUERY/800 92534B 00.00

One-line description:

From main menu, "System Keys" then "Main Menu" causes error message.

Signed off 10/24/89 in release B01.05

KPR #: 9061000570 Product: ALLBASE/QUERY/800 92534B 00.00

One-line description:

USER attribute is confused with SYSTEM.USER attribute.

Signed off 10/24/89 in release B01.05

KPR #: 9061000596 Product: ALLBASE/QUERY/800 92534B 00.00

One-line description:

You get an extra ' ' in the field header.

Cause:

The problem was caused by the 'tHdr' buffer overrun. One of the conditions in the 'while' loop, searching for the end of the header segment, used incorrect buffer size('size n40 chars of'). This has been changed to 'SizeOf(tdHdr)' and it seems to have fixed the problem.

Signed off 10/24/89 in release B00.50

KPR #: 1650047795 Product: HPTODAY HPTODAYA 01.04

One-line description:

HP-UX shell from HPToday cannot show more than 80 char's on line.

Cause:

The InhEolWrp strap was being set incorrectly, it should have been set to NO when the shell was called. The new display processor has addressed this problem.

Signed off 07/04/88 in release A02.00

KPR #: 5000230417 Product: HPTODAY HPTODAYA 01.04

Keywords: MESSAGE FILE

One-line description:

After installing HPToday, TSPATH directory permissions set wrong-775

Cause:

When HP TODAY was installed the permissions on the "s" directory were set incorrectly. This meant that users other than "hptoday" or those who were not in the "hptoday" group would get an error when trying to create data files:

"Unable to reformat file. It may not have been created. (30005)".

The directory is now correctly set to 775.

Signed off 03/28/88 in release A02.00

KPR #: 5000233734 Product: HPTODAY HPTODAYA 01.05

One-line description:

SQL error 2214. Cannot change name of SQL Runonly appl. when loading.

Temporary solution:

Unload a source copy, reload this and change the name, generate the application, unload this as a run-only copy and reload this revised application as a replacement, i.e. not changing the name.

So if you were trying to change the name of the "SQLTRAIN" application to SQLRUN, you would:

Unload SQLTRAIN with full source.

Load it back in as SQLRUN.

Generate SQLRUN.

Unload SQLRUN as a run-only application.

Delete SQLRUN from the S-files.

Reload SQLRUN.

Signed off 03/28/88 in release A02.00

KPR #: 5000243501 Product: HPTODAY HPTODAYA 01.04

One-line description:

Value of *INDEXNO changed during report generation, but not reset after.

Cause:

During a report, HP TODAY would sometimes change the value in *INDEXNO, and not reset it afterwards. Now HP TODAY will reset the value of *INDEXNO if it uses it in a report.

Signed off 04/27/88 in release A02.00

Duplicate Service Requests: 9061000364 9061000281 9061000331

KPR #: 5000278945 Product: HPTODAY HPTODAYA 01.05

One-line description:

Cannot reformat file residing on different volume.

Fix information:

HP-UX CANNOT LINK ACROSS DIFFERENT VOLUMES. DURING REFORMAT, HPTODAY CREATES A TEMPORARY FILE IN /USR/TEMP AND LINKS THIS TO THE DATA FILE BEING REFORMATTED. IF /USR/TEMP AND '\$TDPATH' RESIDE ON DIFFERENT VOLUMES, REFORMAT WILL FAIL.

WORKROUND: KEEP /USR/TEMP AND \$TDPATH ON THE SAME VOLUMES.

Signed off 02/09/89 in release B01.00

KPR #: 5000284976 Product: HPTODAY HPTODAYA 01.00

One-line description:

.TDYFS FILE NOT CREATED WHEN UNLOADING RUN-ONLY VERSION.

Fix information:

The workaround to create the .tdyfs file for the base application is to unload the application without unloading any versions. (see pages 8-7 and 8-8 of the Dev Admin manual). Since file definitions are one of the name list items, putting a file definition in the version means that you get ALL the file definitions from the base application, like it or not.

Signed off 06/06/88 in release A02.00

KPR #: 5000295691 Product: HPTODAY HPTODAYA 01.00

One-line description:

Numeric fields can lose the last digit of input data.

Problem:

A screen field with edit code S for signed number, or N for unsigned number, will modify numbers entered into the field when passing to the next field on the screen if those numbers contain decimal places. The fix will be included in the next release of HP TODAY. A fixed binary is available from your response centre.

Signed off 09/05/88 in release B01.00

KPR #: 5000295709 Product: HPTODAY HPTODAYA 01.00

One-line description:

Files with absolute data paths will cause link error on reformatting.

Problem:

There is a cross device link error on reformatting data files which reside on different sections or discs from HP TODAY. This problem only occurs when absolute data path names have been used in the definition of the file. As absolute data paths are undesirable because they make programs non-portable we always recommend that files are specified relative to \$TDPATH. When the file name is specified as relative to \$TDPATH this problem does not occur.

Signed off 02/06/89 in release B01.00

KPR #: 5000436469 Product: HPTODAY HPTODAYA 00.00

One-line description:

Developer print record layouts gives error on multiple occurrence fields

Signed off 03/20/89 in release B01.00

KPR #: 5000441824 Product: HPTODAY HPTODAYA 02.00

One-line description:

Background process cannot lock file and aborts, not executing ON ERROR.

Fix information:

Added new error messages to list of messages that want be displayed if there is an ON ERROR clause with a FILE command. Also saved the message that would have been displayed into *ERROR communication area.

Signed off 10/12/89 in release B01.00

KPR #: 9061000042 Product: HPTODAY HPTODAYA 01.04

One-line description:

Generates consumes memory and never releases it.

Cause:

When generating an application, memory would be allocated but would never be de-allocated. Even when the generation was finished, HP TODAY would not clean up.

Temporary solution:

If you have a very large application, you might need to generate the different items in the application separately, and leave HP TODAY completely between each generation.

Signed off 04/27/88 in release A02.00

Duplicate Service Requests: 9061000059

Known Problem Reports as of 07/16/90

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KPR #: 9061000067 Product: HPTODAY

HPTODAYA

01.04

One-line description:

Reps Generates acts up when "." of file ref is on char 255

Problem:

Generate of a report where the '.' of a file reference field falls on character position 255 of the s-file L record gives the generate error

Required file reference is missing

and the report generation will fail. There is nothing wrong with the report.

Fixed in the A.02.00 release.

Signed off 04/27/88 in release A02.00

KPR #: 9061000224 Product: HPTODAY

HPTODAYA

01.05

One-line description:

HPtoday Internal error: on primary file field of report header

Temporary solution:

You must either specify explicitly the record layout to use for the primary file of the report or make sure that there is no period ('.' dot) in any field after the primary file field on the report header screen. These dots (period '.') typically appear in the Description (Documentation) field of the report header.

If you wish to use the default record layout for the primary file of the report, you must specify the record layout explicitly in the report header. (If you wish to have dots in the description field.)

eg. [customer.cust_rec] Where 'customer' is the primary file name and 'cust_rec' is the primary record (default) layout for the customer file.

This error will cause S file corruption if the screen is committed. The bug is fixed and will appear in A.02.00 release due for MR late May 1988. We are currently developing tools that will correct s file corruption. If you encounter this problem the please contact us.

HPDESK: Aso Support/HPY200/00

HP-UX: hpfcla!hpausla!aso supp

Phone: International + 613-8791999

Signed off 04/27/88 in release A02.00

KPR #: 9061000232 Product: HPTODAY

HPTODAYA

01.00

One-line description:

FILE *FIND in C-ISAM file always finds 1st record if key is type date

Temporary solution:

This defect occurred if a FILE *FIND *KEY=S-curr_date.screen_name was

KPR #: 9061000372 **CONTINUED**

WORKAROUND: From a menu call a function or process which in turn calls the report.

Signed off 06/07/88 in release A02.00

KPR #: 9061000380 Product: HPTODAY HPTODAYA 01.00

One-line description:
Define command not working to spec

Cause:

In the following logic function line 4 gave an error when the function was generated.

```
1  DEFINE %IFF% IF
2  DEFINE %THEX% *ON THEN MOVE "ON"
3  DEFINE %ELEX% ELSE MOVE "OFF"
4  %IFF% 1 %THEX% V-P1 %ELEX% V-P1
```

When this function is generated the fourth step gives the error message

```
04 21 %      Argument : Too many arguments have been specified.
```

HP TODAY has not expanded the defined strings correctly hence the error. The problem is under investigation.

Temporary solution:

Avoid defining a string that replaces a HP TODAY logic command.

Signed off 04/18/90 in release A02.00

KPR #: 9061000406 Product: HPTODAY HPTODAYA 02.00

One-line description:
FILE *REMOVE causes segmentation fault

Problem:

The logic command FILE *REMOVE, when used on a serial file, gives a segmentation fault if the file is not opened before the command is performed.

The command will work if you read a record from the file first. The problem has been fixed for the next release (post A.02). The fixed binary is available from your response centre.

Signed off 11/23/88 in release B01.00

KPR #: 9061000414 Product: HPTODAY HPTODAYA 02.00

One-line description:

Clearing the window that the cursor is on causes a segmentation fault.

Problem:

If a window which is being displayed on the screen, is cleared, and the *ENDFIELD communication area is then set to ON then a segmentation fault will occur. The problem has been resolved for the next release (post A.02). Contact your response centre for a copy of the fixed binary.

Signed off 11/23/88 in release B01.00

KPR #: 9061000539 Product: HPTODAY HPTODAYA 02.00

One-line description:

MOVE R-anything R-sqltable sets NULL values!

Signed off 04/18/90 in release B01.00

KPR #: 9061000547 Product: HPTODAY HPTODAYA 02.00

One-line description:

segmentation fault in generating 40+ column select list

Fix information:

The code in dd_gen() assumed memory returned from a realloc() would be just tacked on the end of the existing memory. It wasn't. So I updated all pointers referencing old block of memory to point to the new block of memory.

Signed off 10/17/89 in release B01.00

KPR #: 9061000604 Product: HPTODAY HPTODAYA 02.00

One-line description:

HPToday screen cursor position information is invalid.

Signed off 04/18/90 in release B01.00

KPR #: 9061041186 Product: HPTODAY HPTODAYA 01.05

One-line description:

Softkeys on Catalog Display screen not replaced after Screen Print Scr

Problem:

The function keys for Catalog display are not returned when returning from screen printing screen.

Cause:

The correct set of function keys are now displayed after screen printing has been used in the catalog display screen. This fix is in the A.02.00 release.

Fix information:

Fixed in A.01.06 release.

KPR #: 9061041186 **CONTINUED**

Signed off 04/27/88 in release A02.00

KPR #:	9061041459	Product:	HPTODAY	HPTODAYA	01.00
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Keywords:	FIELD	QUERY	SCREEN
	MESSAGE	TYPE	

One-line description:

Query message in screen header if screen type changed has no default.

Problem:

A default is implied in the text of the message but the default does not exist.

Temporary solution:

Enter N then <cr>

Signed off 04/27/88 in release A02.00



NETWORKING

Software Status Bulletin



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LAN MANAGER/X S300	B1003A	01.00	00.00
NETWORK SERVICES/300	B1012A	07.00	00.00
NFS SERVICES/300	50969A	07.00	00.00
NFS SERVICES/300	B1013A	07.00	00.00
NS-ARPA SERVICES/300	50952B	06.00	00.00
NS-ARPA SERVICES/300	50952C	07.00	05.50
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S/300 TCP/IP AGENT	B1010A	01.00	00.00
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*****none*****	50952-90010	00.00 Description of sending message round-robin using sendmail is incorrect	4000044925	2
*****none*****	50952-90010	00.00 Sendmail accepts capital letters in node names but not clear in manual.	4000046102	3
*****none*****	50952-90010	00.00 Add warning to manual for rcp (1).	5000169342	3
*****none*****	50952-90010	00.00 Difference between notations DOMAIN.YOURINST.COM & DOMINE YOURINST COM.	5000172445	4
*****none*****	50952-90010	00.00 Inadequate description of pathaliases	5000173609	4
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*****none*****	50951-90000	00.00 Rpm must not attempt to open files already open	4000044891	6

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*****none*****	B1014A	07.00 rwhod fails to report users when yellow pages is enabled	1650109785	7
*****none*****	B1014A	07.00 rwhod fails to report users when yellow pages is enabled	1650109801*	1
*****none*****	B1014A	07.00 Telnetd appears to strip 8 bit characters replacing with nulls under 7.0	1650120535	7
*****none*****	B1014A	07.00 /etc/named.pid overwritten when named started with one already running	4000097519	7
*****none*****	B1014A	07.00 Random lookup failures with name server when queries should succeed	4000097592	8

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Keyword	Product number	uu.ff Description	KPR.number	page
*****none*****	50969A	07.00 Portmap allows user RPC programs to be set/unset from a remote node.	5000557231	10
*****none*****	50969A	06.20 ypcat of netgroups does not show the netgroup name.	5000441386	10
*****none*****	B1013A	06.05 tar file creation using POSIX format over NFS & YP causes core dump.	5000556936	11
*****none*****	B1013A	06.00 NFS mounted file cannot be touched unless user is the OWNER of file	1650113472	11

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*****none*****	50952B	05.22 rexec doesn't deliver signal to the program under execution	5000201491	20
*****none*****	50952B	00.00 Csh with RFA causes problems if doing cd to directory that doesn't exist	1650031872	12
*****none*****	50952C	06.50 Request to fix panic caused by use of the stat() system call over RFA.	5000552539	28
*****none*****	50952C	06.00 netstart drops huge amounts of trace data	4000078287	24
*****none*****	50952C	06.00 "No route to host" returned when host is dead or heavily loaded	4000078345	25
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*****none*****	50952C	06.00 "pwd: read error in .." over RFA on a diskless 300	4000093518	26
*****none*****	50952C	06.00 networking portion of 6.5 default kernel has unix domain socket defect	4000093526	27
*****none*****	50952C	01.00 RFA usage can prevent an NFS mount from completing properly	4000077875	23
*****none*****	50952C	01.00 "ls" after unsuccessful "get" causes ftp to reset connection	4000077883	23
*****none*****	50952C	01.00 inetd goes into infinite loop if a server can't fill a request	4000077909	24
*****none*****	50952C	00.00 Csh with RFA causes problems if doing cd to directory that doesn't exist	4000077982	24
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FTP

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*****none*****	98693A	06.20 srmcp reports "unknown SRM error 31041" when HP Basic/UX locks same file	4000091777	30
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KPR #: 1650109801 Product: ARPA SERVICES/300 B1014A

07.00

One-line description:
rwhod fails to report users when yellow pages is enabled

Fix information:

A patch for this problem exists for release 6.5.
This problem is fixed in release 7.0.

Signed off 02/23/90 in release C07.00

KPR #: 4000044917 Product: 300 NODE MGR GUIDE 50952-900.0 00.00

One-line description:
Sendmail test for -x is always true for super-user

Problem:

In chapter four, a description is given of how to invoke sendmail as a daemon and it lists the lines to be put in /etc/rc. The problem is that the "test -x anything" test always returns true for the super-user.

Temporary solution:

The workaround for the problem is as follows:

```
if ll /usr/lib/sendmail | grep '\-...[xs].....[tx]'\>>dev/null 2>&1
then
    /bin/rm -f /usr/spool/mqueue/[lnx]*
    /bin/echo "###rebooted at 'date' ###" >> /usr/spool/mqueue/sysl
og    /usr/lib/sendmail -bd -q30m && /bin/echo "sendmail \c"
fi
/bin/echo "\n"
```

Fix information:

May be fixed in a future release.

KPR #: 4000044925 Product: 300 NODE MGR GUIDE 50952-90010 00.00

One-line description:

Description of sending message round-robin using sendmail is incorrect

Problem:

Chapter four discusses how to verify inbound and outbound SMTP connections in the "remote mailing via the SMTP transport" section of the chapter. The following example is given to test the round trip where node2 is the local host:

```
date|mailx -s "Round Robin SMTP" david%node2@node1
```

However, this does not work. The message gets to node 1 but node 1 never sends it back to node 2.

Temporary solution:

In order for the round trip to work, the "me too" option in sendmail needs to be sent. This says that you really want the message to be sent back to the sender even though the sender already knows what the message is. This can be done in two ways:

1. Set the "me too" option in the sendmail configuration file by adding the line:

Om

Then be sure to refreeze the configuration file.

KPR #: 4000044925 **CONTINUED**

2. Invoke sendmail with the -om flag.

Fix information:
May be fixed in a future release.

KPR #: 4000046102 Product: 300 NODE MGR GUIDE 50952-90010 00.00

One-line description:
Sendmail accepts capital letters in node names but not clear in manual.

Problem:
Sendmail(lm) will not allow node names with capital letters. It maps the capital letters into lower-case letters before checking /etc/hosts. This is not a problem with the rulesets supplied in the default configuration file, sendmail.cf.

To work around the problem, make two entries in /etc/hosts-- one in capital letters and the other name in all lower case letters. For example, if I have a node named HUB, I would make two entries for HUB in /etc/hosts,

```
internet_address HUB
internet_address nub
```

The second entry is the one that sendmail(lm) will find when you send mail to HUB, eg. date | mailx -s "sendmail test" user@HUB. Without the second entry in /etc/hosts you get an "Unknown host" error reported by sendmail(lm) and the mail is returned to the sender.

Fix information:

This problem is also submitted against the 50952B product with SR# 5000-165587. Actually, this is a documentation problem. Although, the information to allow capital letters in sendmail node names is in the manual, the information is difficult to find. The information should be presented where it is easier to find. The fix is to add the "-h" option to the TCP mailer. The information is in the manual on page 4-65.

KPR #: 5000169342 Product: 300 NODE MGR GUIDE 50952-90010 00.00

One-line description:
Add warning to manual for rcp (1).

Problem:
Please add a warning to the manual for rcp(1) stating the consequences if attempted rcp is done with the file and the target being the same file. The consequences are corrupted data. It is mentioned in description, but a warning would be re-affirmed to the user of the consequences.

Fix information:
This is a documentation problem. Please add a line in the manual for rcp(1) to warn user not to transfer file with the

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KPR #: 5000169342 **CONTINUED**

same source and target file name. The reason is this will cause corrupt data to the target file.

KPR #: 5000172445 Product: 300 NODE MGR GUIDE 50952-90010 00.00

One-line description:
Difference between notations DOMAIN.YOURINST.COM & DOMINE YOURINST.COM.

Problem:
Problem with Arpa Services 300 Node Manager's Guide in Sendmail section on page 4-57 there a discussion at the top of the page about defining your local domain, and it has two examples relating to CD and DD. One for your local domain (fully qualified), and one for your local domain names. One shows DOMAIN.YOURINST.COM with the dot notation, and the other is DOMAIN.YOURINST.COM with space notation. There is no discussion why the difference between these two notations, and the manual is lacking more specific information for what these do within the software system.

Fix information:

The notation YOURDOMAIN.YOURINST.COM in the DD field of the sendmail configuration file is used when your system is a member of a domain. The DD field contains the fully qualified name of the domain. This DD field is appended to the message header when the system sends mail.

The notation YOURDOMAIN.YOURINST.COM in the CC field just lists the elements of the system's fully qualified domain name. This is done so that the domain information can be stripped from the recipient addresses. This is done so that the host can recognize mail addressed to it.

KPR #: 5000173609 Product: 300 NODE MGR GUIDE 50952-90010 00.00

One-line description:
Inadequate description of pathaliases

Problem:
System 300 networked over Lan, with Arpa/Berkely Services, running 5.17 software. Problem is in the manual on Arpa/Berkeley Node Managers Guide, on page 4-61. There is a discussion on the Pathaliases Nameserver which is totally inadequate. Please add some more information to the discussion found on 4-16. It should include, why the pathaliases nameserver is used, benefits, examples, and details about the usage as well as problems that may arise, with sendmail.

Temporary solution:

Pathaliases is a nameserver for routing using uupath. To use it uncomment the line in the configuration file that states:

```
#try to get a path to an unresolved UUCP address
#by calling the pathaliases nameserver
```

Remove the sharp signs and leading spaces from the beginning of the lines that follow the above two lines. Continue removing sharp

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KPR #: 5000173609 **CONTINUED**

signs until the
END of nameserver
line is encountered.

However, there are more steps that must be taken than just commenting out those lines. You have to set up the uupath database.

To do that:

1. Create a file using the format described in pathalias(1).
2. Use the pathalias(1) command on that file you created in step 1 and redirect the output to /usr/lib/mail/paths
3. Use the mkupath command (uupath(1)) command on the redirected file in step 2. This will create two database files.

Fix information:

May be fixed in a future release.

KPR #: 5000186643 Product: 300 NODE MGR GUIDE 50952-90010 00.00

One-line description:

Device file and named pipes for 500 series.

Problem:

System Configuration: Two 9000 Series 500's networked together running 5.11.

There is no way to open a named pipe over the network. In the manual it states NS/9000 Users Guide under remote file access, device files and named pipes can be opened over the network on 500's ONLY. This was attempted and unsuccessful. The error message was errno 11 from the open call, and EINVAL error (invalid argument). You can open a standard file over the network, but not a named pipe.

Fix information:

May be fixed in a future release.

KPR #: 4000044891 Product: 9000 LAN USER GUIDE 50951-90000 00.00

One-line description:
Rpm must not attempt to open files already open

Problem:

The manual states in Chapter four for RPM routines that processes running on remote computers must not attempt to open files that are already open.

Temporary solution:

It is not a problem for rpm to attempt to open a file that was already opened. The statement will be removed from the manual.

Fix information:

May be fixed in a future release.

KPR #: 1650113472 Product: NFS SERVICES/300 B1013A 06.00

One-line description:
NFS mounted file cannot be touched unless user is the OWNER of file

KPR #: 5000556936 Product: NFS SERVICES/300 B1013A 06.05

One-line description:
Tar file creation using POSIX format over NFS & YP causes core dump.

KPR #: 1650031872 Product: NS-ARPA SERVICES/300 50952B 00.00

One-line description:
Csh with RFA causes problems if doing cd to directory that doesn't exist

Problem:

Problem with csh on RFA can be simulated as follows:

1. Login onto a s300 computer using a user name which has a /bin/sh as
2. Connect to a remote system using netnam via e.g. /net/REMOTE.
3. Change the working directory to a directory on the remote system which does NOT exist on the local system.

For example: cd /net/REMOTE/tmp/unique

4. Try to start a C-shell by typing in the following command: csh
- You will get the error: 'getwd: can't change back', and you will not get the requested C-shell

This problem does not occur when the directory on the remote system also exists on the local system.

When you try the same sequence of commands from a s500 local computer, you will not get the above error message, NOR THE REQUESTED C-SHELL !!

The same problem occurs whenever you try to start a C-shell from vi (with: 'sh'), suppose your working directory is a directory on a remote

Fix information:

This problem is another manifestation of the RFA "cd .." problem. The problem has been deemed a WILL NOT FIX. For Series 300 users, you must upgrade to the 50952C product and at release 6.2, this defect will be fixed.

Signed off 10/11/89 in release B06.50

KPR #: 400030841 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: FTP

One-line description:

FTP: <break> interrupts background transfers, even if nohup'd.

Problem:

Ftp intercepts SIGINT signals and terminates transfers, even when it is in the background. Ftp is designed to run as an interactive program. The user can work around this problem only by refraining from <break>ing while ftp is transferring data. Another possible work around is to write a program that does a "setpgp" followed by a "system" call that executes ftp (or the here script that provides the input for ftp). That solution puts ftp in a separate process group.

Fix information:

May be fixed in a future release.

KPR #: 4000030858 Product: NS-ARPA SERVICES/300 50952B

01.00

Keywords: FTP

One-line description:

Ftp can only supply USER information once per connection

Problem:

In ftp, you can only supply USER information once per connection. This is due to the way that ftp's login support is coded. The user can work around this problem by breaking the current connection and establishing a new one to change the remote login.

Fix information:

May be fixed in a future release.

KPR #: 4000030866 Product: NS-ARPA SERVICES/300 50952B

01.00

Keywords: RCP

One-line description:

Rcp prints garbage to screen when wilddcarding includes "." and "...".

Problem:

In some cases, rcp prints garbage to the screen. This occurs when wilddcarding includes "." or "...". It is annoying but is not hazardous. The workaround is to avoid specifying "." and "...". The transfer will complete normally if "." and "." are used.

Fix information:

May be fixed in a future release.

KPR #: 4000030916 Product: NS-ARPA SERVICES/300 50952B

01.00

Keywords: INETD

One-line description:

MAXNUM value not reset after inetd.sec file deleted.

Problem:

If MAXNUM was assigned a value in /usr/adm/inetd.sec and after a service is used (that is inetd.sec is read) inetd.sec is deleted, the value of MAXNUM will not be reset to the original large number (1000). Therefore, even if the security file does not exist anymore, the maximum number of simultaneous remote services allowed will still be the previously defined MAXNUM value.

A workaround for the problem is to create another inetd.sec file with an entry for MAXNUM set to a large number like:

MAXNUM 1000

Then use a remote service to the system so that inetd.sec will be reread, and then delete inetd.sec. Another solution is to kill the inetd (inetd -k) and restart it, which will reset the value of MAXNUM to the large default number 1000.

KPR #: 4000030916 **CONTINUED**

Fix information:

May be fixed in a future release.

Duplicate Service Requests: 4000036566

KPR #: 4000031013 Product: NS-ARPA SERVICES/300 50952B

01.00

Keywords: RLOGIN

TELNET

One-line description:

UTMP entries won't be cleaned up if telnetd/rlogind hard killed

Problem:

If telnetd or rlogind are hard killed via a kill -9, say by the super-user, then they do not have a chance to clean up the utmp entries. This results in a "who" showing the person as still logged in, even though the person is no longer there. This will ONLY happen if the daemon is hard killed. A "normal" kill (kill -15 or kill -TERM or just kill), will allow cleanup. Note also that the normal shutdown procedures will take care of this gracefully. This will occur on virtually any UNIX system.

WORKAROUND: the next login on the same pty will result in the entry being cleaned up.

Fix information:

May be fixed in a future release.

KPR #: 4000031047 Product: NS-ARPA SERVICES/300 50952B

01.00

Keywords: TELNET

One-line description:

Telnetd never sends a Go Ahead command to the client.

Problem:

According to the TELNET standard, telnetd should send a TELNET Go Ahead (GA) command whenever the computer is ready for input. This is so that terminals that don't support type ahead, and which interact a line at a time, can know when to begin accepting input again. However, in a UNIX environment, there is no way for telnetd to know when the processes underneath it (i.e. application programs on the remote host) need or are requesting input. Many of the most common applications expect character at a time input (e.g. vi, more, etc.), but telnetd has no way to know which characters may have special meanings about input and output to sub-processes. Thus, telnetd never sends a GA command to the client.

NOTE: none of the supported machines require this feature, and I know of none that do, though a telnet implementation on, say the 3000, might require such a feature.

WORKAROUND: if possible, enable the terminal to always continue to send characters, and configure the telnet client to suppress the expecting of the GA command. Note that this should not be necessary with a UNIX system.

KPR #: 4000031047 **CONTINUED**

Fix information:
May be fixed in a future release.

KPR #: 4000031112 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: TELNET

One-line description:
Telnet/telnetd mishandle BINARY option negotiations.

Problem:
If the telnet client sends a "WILL BINARY" option negotiation to telnetd (the server), telnetd responds "DO BINARY" and acts appropriately. If the client later sends a "WONT BINARY", telnetd responds "DONT BINARY". At this point, telnetd is expecting the client to be in local echo mode (meaning the client echos characters back to the terminal, instead of relying on the server to echo them back), while the client usually expects to be in the same mode it was before the binary negotiations took place, which is the server handling the echoing. The result is that characters are not echo'd and that carriage returns are NOT mapped to newlines.

NOTE: This will only happen if the client initiates the negotiation, which can not be done on a 4.2 BSD system, but which can be done with the VAX Wollongong software.

WORKAROUND: If the client side supports user initiated option negotiation, it can send a "DONT ECHO" immediately followed by a "DO ECHO". Alternatively, you can enter a 'stty echo icrnl' command (which will probably have to be terminated with a NEWLINE (^J), not a normal carriage return), or the equivalent on a non-UNIX machine.

Fix information:
May be fixed in a future release.

KPR #: 4000031120 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: TELNET

One-line description:
Telnet/telnetd mishandle [WILL, WONT] ECHO option negotiations.

Problem:
If a telnet client sends an option "WILL ECHO" to the server telnetd, telnetd turns off the carriage return to newline mapping. Most systems use carriage return as the equivalent to newline, but expect the server to do the mapping. The result is that you have to type a ^J to terminate a line.

NOTE: This will only happen if the client initiates the negotiation, which can not be done on a 4.2 BSD system, but which can be done with the VAX Wollongong software.

WORKAROUND: Issue the command "stty icrnl", or the equivalent to the

KPR #: 4000031120 **CONTINUED**

server side. (You may have to terminate the command with a control-J (newline) as opposed to a carriage return.)

Fix information:
May be fixed in a future release.

KPR #: 4000031138 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: TELNET

One-line description:
Telnet mishandles [DO, DONT] ECHO option negotiation.

Problem:
If telnet (the client) receives a "DO ECHO" from the server, it responds "WILL ECHO". If it then receives a "DONT ECHO", it should respond "WONT ECHO". However, it does not respond at all. The client continues to think that it should handle echoing, while the server thinks it should be handling echoing. The result is that both ends echo typed characters, resulting in two characters for each character typed (e.g. type 'a' and see 'aa').

NOTE: This will only happen if the client initiates the negotiation, which can not be done on a 4.2BSD system, but which can be done with the VAX Wollongong software.

WORKAROUND: Have the client send a "DONT ECHO" followed by a "DO ECHO" TELNET commands.

Fix information:
May be fixed in a future release.

KPR #: 4000031153 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: RLOGIN

One-line description:
Rlogin: line beginning with escape character may get echo'd twice.

Problem:
Rlogin to a remote machine. Start a escape of some kind ("~!"), but backup over the "~!" and enter a normal line beginning with the escape character. Because of "~!" rlogin thought you were entering a shell escape, but when you entered something different, it didn't realize it until the end of the line, and at that point sent it to the remote, where it got echo'd again.

NOTE: This only happens if you start an escape, backspace over the escape command ("~!"), and then enter a non-escape line. Also, on most 4.2 based systems, any time you start a line with the escape character, it can get echo'd twice, not just when you backspace.

WORKAROUND: No known workaround.

KPR #: 4000031153 **CONTINUED**

Fix information:

May be fixed in a future release.

KPR #: 4000031179 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: FTP

One-line description:

Ftp cannot tolerate interrupts during data transfers.

Problem:

Whenever ftp receives a SIGINT signal (which occurs if you press BREAK or DEL), it longjumps to the start of its "get command" code. Unfortunately this doesn't work properly when a data transfer is in progress. Ftp exists precipitously from a protocol handshake sequence with the daemon, which leaves the ftp/ftpd protocol screwed up. Ftp fails to read the "Transfer complete" reply from ftpd. From then on when ftp displays responses from ftpd the responses are delayed because of the presence of the extra response. Note that ftp receives SIGINT signals even when it runs in the background, even if it is nonup'd. It was designed to be interactive.

WORKAROUND: Don't interrupt data transfers. Wait until transfers are complete before interrupting the program. If you interrupt a data transfer then you must exit from ftp and re-enter it, because replies from the ftp daemon get out of sync with ftp.

Fix information:

May be fixed in a future release.

KPR #: 4000031187 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: FTP

One-line description:

Ftp: "get /x" creates "/x", not "./x".

Problem:

Ftp users may expect "get /x" to create "x" in the local working directory. In fact, ftp creates "/x" locally. This is documented behavior, but is confusing and is a common source for complaints.

WORKAROUNDS:

ftp> get /x x

or

ftp> cd /

ftp> get x

These create "x" in the local working directory.

Fix information:

May be fixed in a future release.

KPR #: 4000031211 Product: NS-ARPA SERVICES/300 50952B

Keywords: FTP

One-line description:

Ftp gets confused if you try to login as nonexistent user.

Problem:

Ftp gets confused if you try to login as a nonexistent user.

Example:

ftp -n

ftp> open hpfc

Connected to hpfc.

220 hpfc FTP server (Version: 7.1 86/06/25 02:07:52) ready.

ftp> user nonexistent

331 Password required for nonexistent.

Password:

530 User nonexistent unknown.

ftp: Login failed

ftp> ls

503 Login with USER first.

ftp: port cmd failed, using default data port now

200 PORT command okay.

(Hangs. User enters DEL)

ftp> bye

530 Please login with USER and PASS.

WORKAROUND: Enter a valid name.

Fix information:

This defect is fixed in release 6.2.

KPR #: 4000031278 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: RLOGIN

TELNET

One-line description:

Rlogin/telnet may be incompatible with some applic. that control input.

Problem:

Rlogin and telnet to a remote host may end up with incompatible termio modes between the remote host and the local host. Rlogin and telnet generally expect to be able to put the terminal driver in a no echo mode, where characters are not processed, or echoed, and are passed to the remote end, where the remote end can echo them or not as appropriate. Some applications (e.g. the HP Common Lisp environment) will line buffer input for commands before rlogin and telnet can see it. These applications will typically do echoing of the users typed characters as the line is entered, allowing the user to edit the line as it is entered. Once the line is entered then the whole line is passed on to telnet/rlogin, which sends it to the remote end, which then typically echoes it back, resulting in two copies of the line being echoed. In general, rlogin and telnet expect to be in control of their input, and may be incompatible with applications that do not allow this.

KPR #: 4000031278 **CONTINUED**

WORKAROUND: If this state occurs, typically the easiest thing to do is to put the remote entry in a non-echo mode. With rlogin and telnet to UNIX-type machines, this can be done by issuing a "stty -echo" command on the remote machine after the connection is established. This will work for most 4.2 based machines and for the Bourne shell (/bin/sh). However, the C-shell (/bin/csh) on HP-UX always resets the termio modes after a command, so that the stty will have no effect in this case. The work-around in this case is to start a csh with the "-f" (capital 'f') option, which informs csh to not reset the termio modes, and not echo. Note that this means that csh will also not be able to do file name completion, etc.

Fix information:

May be fixed in a future release.

KPR #: 4000031294 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: INETD

One-line description:

Inetd does not print error if unknown username used in inetd.conf.

Problem:

Inetd does not print an error message when a username specified in /etc/inetd.conf as who should run a server is not in /etc/passwd. Inetd tries to execute the server using the incorrect username and fails. Therefore, the remote service is not executed.

Fix information:

May be fixed in a future release.

KPR #: 4000031310 Product: NS-ARPA SERVICES/300 50952B 01.00

Keywords: SENDMAIL

One-line description:

Sendmail can overload transports' argument buffers with batch mode mes.

Problem:

Sendmail can overload transports' argument buffers (especially uux) when using batch mode message transfers. This problem occurs when a delivery agent is defined with batch mode capabilities and is not capable of dynamically adjusting to very large recipient address lists.

The HP-UX UUCP transport (consisting of uux(1), uuxqt(1m), and uuico(1)) cannot reliably handle recipient lists that are longer than 350 characters, so batch mode should not be used with a UUCP delivery agent.

WORKAROUND: Don't use batch mode unless the delivery agent can dynamically adjust to large recipient lists.

Fix information:

This defect was fixed in the 6.2 release.

- NS-ARPA SERVICES/300 -

KPR #: 5000201491 Product: NS-ARPA SERVICES/300 50952B 05.22

One-line description:

rexec doesn't deliver signal to the program under execution

Problem:

This demonstrates the rexec bug, where it does not deliver signals to the program under execution. It is easiest to run this from the /tmp directory:

```
cc tester.c -o tester -lbsdipc
chmod a-x nettest
tester 'hostname' account passwd /tmp/nettest
```

Nettest writes a message on its standard output, which tester reads and writes to the terminal. Tester writes a signal 15 down the control socket, and if nettest receives it, it will create a file called /tmp/gotit. This doesn't work on our hp9000 300 hpux bobcat 5.22 B.

tester.c contains the following code:

```
main(argc,argv)
char **argv;
{
    int i, c;
    char *host = argv[1];
    i = rexec(&host, 512, argv[2], argv[3], argv[4], &c);
    if( i < 0)
        perror("rexec");
    else
    {
        char sig = 15;
        char buf[128];
        int n = read(i, buf, sizeof(buf));
        write(1, buf, n);
        write(c, &sig, sizeof(sig));
    }
}
```

The file nettest contains:

trap 'touch /tmp/gotit; exit 0' 15

```
echo aok boss
sleep 30
```

Fix information:

This has been fixed in release 6.0

Signed off 10/11/89 in release B05.00

- NS-ARPA SERVICES/300 -

KPR #: 4000073593 Product: NS-ARPA SERVICES/300 50952C

01.00

Keywords: RLOGIN TELNET

One-line description:
UTMP entries won't be cleaned up if telnetd/rlogind hard killed

Problem:
If telnetd or rlogind are hard killed via a kill -9, say by the super-user, then they do not have a chance to clean up the utmp entries. This results in a "who" showing the person as still logged in, even though the person is no longer there. This will ONLY happen if the daemon is hard killed. A "normal" kill (kill -15 or kill -TERM or Just Kill), will allow cleanup. Note also that the normal shutdown procedures will take care of this gracefully. This will occur on virtually any UNIX system.

WORKAROUND: the next login on the same pty will result in the entry being cleaned up.

Fix information:
May be fixed in a future release.

KPR #: 4000073601 Product: NS-ARPA SERVICES/300 50952C

01.00

Keywords: TELNET

One-line description:
Telnetd never sends a Go Ahead command to the client.

Problem:
According to the TELNET standard, telnetd should send a TELNET Go Ahead (GA) command whenever the computer is ready for input. This is so that terminals that don't support type ahead, and which interact a line at a time, can know when to begin accepting input again. However, in a UNIX environment, there is no way for telnetd to know when the processes underneath it (i.e. application programs on the remote host) need or are requesting input. Many of the most common applications expect character at a time input (e.g. vi, more, etc.), but telnet has no way to know which characters may have special meanings about input and output to sub-processes. Thus, telnetd never sends a GA command to the client.

NOTE: none of the supported machines require this feature, and I know of none that do, though a telnet implementation on, say the 3000, might require such a feature.

WORKAROUND: if possible, enable the terminal to always continue to send characters, and configure the telnet client to suppress the expecting of the GA command. Note that this should not be necessary with a UNIX system.

Fix information:
May be corrected in a future release.

KPR #: 4000073627 Product: NS-ARPA SERVICES/300 50952C

01.00

Keywords: FTP

One-line description:
Ftp cannot tolerate interrupts during data transfers.

Problem:
Whenever ftp receives a SIGINT signal (which occurs if you press BREAK or DEL), it longjumps to the start of its "get command" code. Unfortunately this doesn't work properly when a data transfer is in progress. Ftp exists precipitously from a protocol handshake sequence with the daemon, which leaves the ftp/ftpd protocol screwed up. Ftp fails to read the "Transfer complete" reply from ftpd. From then on when ftp displays responses from ftpd the responses are delayed because of the presence of the extra response. Note that ftp receives SIGINT signals even when it runs in the background, even if it is nohup'd. It was designed to be interactive.

WORKAROUND: Don't interrupt data transfers. Wait until transfers are complete before interrupting the program. If you interrupt a data transfer then you must exit from ftp and re-enter it, because replies from the ftp daemon get out of sync with ftp.

Fix information:
May be corrected in a future release.

Duplicate Service Requests: 4000073658

KPR #: 4000073635 Product: NS-ARPA SERVICES/300 50952C

01.00

Keywords: FTP

One-line description:
Ftp: "get /x" creates "/x", not "./x".

Problem:
Ftp users may expect "get /x" to create "x" in the local working directory. In fact, ftp creates "/x" locally. This is documented behavior, but is confusing and is a common source for complaints.

WORKAROUNDS:

ftp> get /x x

or

ftp> cd /

ftp> get x

These create "x" in the local working directory.

Fix information:
This will not be corrected.

KPR #: 4000073650 Product: NS-ARPA SERVICES/300 50952C

01.00

Keywords: RLOGIN TELNET

One-line description:
Rlogin/telnet may be incompatible with some applic. that control input.

Problem:

Rlogin and telnet to a remote host may end up with incompatible termio modes between the remote host and the local host. Rlogin and telnet generally expect to be able to put the terminal driver in a no echo mode, where characters are not processed, or echoed, and are passed to the remote end, where the remote end can echo them or not as appropriate. Some applications (e.g. the HP Common Lisp environment) will line buffer input for commands before rlogin and telnet can see it. These applications will typically do echoing of the users typed characters as the line is entered, allowing the user to edit the line as it is entered. Once the line is entered then the whole line is passed on to telnet/rlogin, which sends it to the remote end, which then typically echoes it back, resulting in two copies of the line being echoed. In general, rlogin and telnet expect to be in control of their input, and may be incompatible with applications that do not allow this.

WORKAROUND: If this state occurs, typically the easiest thing to do is to put the remote entry in a non-echo mode. With rlogin and telnet to UNIX-type machines, this can be done by issuing a "stty -echo" command on the remote machine after the connection is established. This will work for most 4.2 based machines and for the Bourne shell (/bin/sh). However, the C-shell (/bin/csh) on HP-UX always resets the termio modes after a command, so that the stty will have no effect in this case. The work-around in this case is to start a csh with the "-T" (capital T) option, which informs csh to not reset the termio modes, and not echo. Note that this means that csh will also not be able to do file name completion, etc.

Fix information:

May be fixed in a future release.

KPR #: 4000077875 Product: NS-ARPA SERVICES/300 50952C

01.00

One-line description:
RFA from (300/800) to 500; lseek on directory and read gives garbage

Fix information:

The submitter work around is the correct answer. It is incorrect behavior to use read(2) to access directories over RFA. Instead readdir(2) should be used.

Signed off 10/10/89 in release D00.00

KPR #: 4000077883 Product: NS-ARPA SERVICES/300 50952C

01.00

One-line description:
RFA usage can prevent an NFS umount from completing properly

Signed off 10/10/89 in release C07.00

- NS-ARPA SERVICES/300 -

- NS-ARPA SERVICES/300 -

KPR #: 4000077909 Product: NS-ARPA SERVICES/300 50952C

01.00

One-line description:
"ls" after unsuccessful "get" causes ftpd to reset connection

KPR #: 4000077982 Product: NS-ARPA SERVICES/300 50952C

01.00

One-line description:
inetd goes into infinite loop if a server can't fill a request

KPR #: 4000078287 Product: NS-ARPA SERVICES/300 50952C

06.00

One-line description:
netrstart drops huge amounts of trace data

Problem:

The internal implementation of link level tracing has a performance bottleneck in the /etc/iscan program. The problems described by the submitter text are due to poor performance and their resolution depends on a redesign of the implementation.

Cause:

Tracing uses a facility called 'iscan'. Data is traced into a kernel buffer, then iscan reads this buffer through the /dev/kmem driver. The data is piped from iscan to NS tracing, where it is written to disk.

KERNEL

USER SPACE

pkt data -> kernel buffer -> /dev/kmem -> iscan -> tracing -> disk

This runs into problems partially because there is a pipe from iscan to NS tracing and partially because of the disk. Both are bottlenecks. In addition, iscan has a very crude synchronization mechanism. If it detects that the kernel buffer has wrapped around, it throws all of its current data away, potentially losing an entire buffer of data. This is because iscan was developed for extracting performance measurements from the kernel. It was not designed to handle the large amounts of data that network tracing produces.

The solution to this is to replace the iscan mechanism with a driver designed specifically for network tracing. It would provide a better synchronization mechanism and eliminate the pipe bottleneck by eliminating the iscan program.

Temporary solution:

Tracing to a file ("netrstart -f") is not effective under conditions in which large amounts of data are traced. It is usually better to allocate a large kernel buffer ("netrstart -b") and let the data accumulate in this circular kernel buffer until you are "satisfied". Then use "netrstop -p" to stop tracing and dump the data using "netrtdump". The kernel buffer can be up to 4 megabytes or 1/2 of available memory in size, whichever is smaller. Tracing can collect data for a 'reasonable' period of time with a kernel buffer, depending on buffer size and network load.

KPR #: 4000078287 **CONTINUED**

If wrapping data in a circular buffer is not acceptable, then the above method won't work. There is an alternative. If most data is irrelevant, an alternative which eases the disk bottleneck is to use "nettrstart -f - | nettrfmt -c <conf file>". The configuration file can be used to filter out those packets desired. For example, if you are only interested in a connection from port A on node 99.0.0.1 to port B on 99.0.0.2:

```
% echo "filter connection 99.0.0.1:A 99.0.0.2:B" >conf
% nettrstart -f - | nettrfmt -c conf > fmt.file
```

Furthermore, don't forget that the max data (-m) option of nettrstart can help if all the packet data is not needed. This option causes truncation of the packet, thus reducing the amount of data traced.

Fix information:

May be corrected in a future release.

KPR #: 4000078345 Product: NS-ARPA SERVICES/300 50952C 06.00

One-line description:

"No route to host" returned when host is dead or heavily loaded

Problem:

When address resolution (ARP/PROBE) fails to get a response, an EHOSTUNREACH error is returned to the user level. The error misdirects the user to "no route to host" when in fact the route may exist but the host is not responding.

This can be exhibited by an rlogin to a non-existent or very busy host printing:

```
rcmd: No route to host
```

Fix information:

May be corrected in a future release.

KPR #: 4000078360 Product: NS-ARPA SERVICES/300 50952C 06.00

One-line description:

stat variables must be unsigned; netstat users see -ve values on overflow

Problem:

The problem is that as statistics accumulate, some of the statistics variables overflow. The chances of this happening depend on the frequency of the event associated with the statistic and the size of the stat variable. Many of the stat variables are defined to be 'short', meaning a 16 bit signed integer. The rstat struct in route.h is a good example. All fields in it are 'short'. Most other stat variables are 'int's-- signed integers. When they overflow, these numbers become negative (because they are signed). The netstat command reads these variables (using /dev/kmem) and writes them out to the user. In many instances, a negative value does not make sense (eg. count of input packets).

KPR #: 4000078360 **CONTINUED**

Fix information:

May be corrected in a future release.

KPR #: 4000082206 Product: NS-ARPA SERVICES/300 50952C 00.00

One-line description:

Csh with RFA causes problems if doing cd to directory that doesn't exist

Problem:

Problem with csh on RFA can be simulated as follows:

1. Login onto a s300 computer using a user name which has a /bin/sh as 2. Connect to a remote system using netnam via e.g. /net/REMOTE.
 3. Change the working directory to a directory on the remote system which does NOT exist on the local system.
 - For example: cd /net/REMOTE/tmp/unique
 4. Try to start a C-shell by typing in the following command: csh
- You will get the error: 'getwd: can't change back' and you will not get the requested C-shell

This problem does not occur when the directory on the remote system also exists on the local system.

When you try the same sequence of commands from a s500 local computer, you will not get the above error message, NOR THE REQUESTED C-SHELL !!

The same problem occurs whenever you try to start a C-shell from vi (with: 'sh'), suppose your working directory is a directory on a remote

Fix information:

This problem is another manifestation of the RFA "cd ." problem.

This defect has been fixed in the 7.0 release.

Signed off 10/10/89 in release D00.00

KPR #: 4000093518 Product: NS-ARPA SERVICES/300 50952C 06.00

One-line description:

"pwd: read error in .." over RFA on a diskless 300

Problem:

pwd returns "read error in .." over RFA on a diskless 300.

Here is how to reproduce it:

From the diskless client,

```
hpcndal:root> netnam /net/hpcnos root:
Password:
hpcndal:root> cd /net/hpcnos/tmp
hpcndal:root> pwd
pwd: read error in ..
hpcndal:root>
```

Fix information:

KPR #: 4000093518 **CONTINUED**

This is fixed in the 7.0 HP-UX release.

Signed off 10/10/89 in release D00.00

KPR #: 4000093526 Product: NS-ARPA SERVICES/300 50952C 06.00

One-line description:

networking portion of 6.5 default kernel has unix domain socket defect

Problem:

With the liblan.a shipped as part of the 6.5 default kernel, a unix domain socket program may experience loss of data if the SO_LINGER option is set. There is a corrected version of liblan.a shipped with the system in /etc/conf. The what string on the liblan.a with the potential problem is January 2, 1989. The what string on the corrected liblan.a is January 16, 1989.

The only functional difference between these two liblans is a change to fix the SO_LINGER defect in unix domain sockets.

SO_LINGER is a socket option that guarantees when close()ing a socket that has previously been specified SO_LINGER, and that still has outbound data enqueued waiting to be transmitted, that the close() will not complete until the data has drained (been sent) from the socket.

Therefore with the liblan.a in the default kernel, data will sometimes be lost by applications depending on proper operation of SO_LINGER.

Customers who update an existing system to 6.5 will by default have their kernel /hp-ux rebuilt which will pick up the most up to date liblan.a from /etc/conf.

New systems doing a virgin install will initially come up on the default kernel dropped in /hp-ux. If they do not configure and turn on networking, they are not affected by the lan kernel code in the default /hp-ux. If they do turn on and configure networking and follow the steps in the "Installing and Maintaining NS-ARPA Services" Manual, the /hp-ux made will have the correct liblan.a.

If you are going to be using networking and the SO_LINGER option on unix domain sockets, see the workaround to make a new kernel with the latest liblan.a.

Temporary solution:

Workaround

The workaround is to build a kernel with the liblan.a in /etc/conf. That liblan.a has a what string of January 16, 1989. The steps to build the new kernel if the what string on liblan.a is 01/02/89:

1. cd /etc/conf
2. copy the file you want to use in making your kernel to the file name "dfile".

- NS-ARPA SERVICES/300 -

KPR #: 4000093526 **CONTINUED**

3. /etc/config dfile
4. make -f config.mk
5. mv /hp-ux /SYSBACKUP
6. mv hp-ux /hp-ux
7. reboot

Fix information:

May be fixed in a future release.

KPR #: 5000552539 Product: NS-ARPA SERVICES/300 50952C 06.50

One-line description:

Request to fix panic caused by use of the stat() system call over RFA.

Fix information:

This defect has been fixed and a patch made available to the Network Support Center.

Signed off 07/02/90 in release C08.00

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Known Problem Reports as of 07/20/90

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KPR #: 4000050922 Product: RJE USER'S GUIDE 50968-90000 00.00

One-line description:
Incorrect rje_tracefmt examples in "RJE User's Guide", pages 30 and 91.

Known Problem Reports as of 07/20/90

Page: 30

KPR #: 4000091777 Product: S2/300 SRM ACC/HPUX 98693A 06.20

One-line description:
srmcp reports "unknown SRM error 31041" when HP Basic/UX locks same file

Temporary solution:
Here are some work arounds for this problem.

1. Retry the srmcp command later whenever the 31041 error is seen.
2. Avoid accessing the same files with srmcp and HP Basic/UX.
3. Use some synchronizing mechanism on HP-UX to ensure that srmcp and HP Basic/UX do not access the file at the same time.
4. Move the srmcp and HP-Basic/UX activity onto separate HP-UX systems.





HEWLETT
PACKARD

OPENMAIL/ADVMAIL

Software Status Bulletin



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*****none*****	B1601A	00.00 Internal error 401 occurs when using shift/home after a re-order.	1600106963 8
ADVMAIL	B1601A	00.00 If BCC is a Public DistList then recips. do NOT see name when msg. read	1600107797* 1
	B1601A	00.00 L does not refresh function key labels - they are removed	1600105544 7
	B1601A	00.00 Screen output from advmail that doesn't occur via JAM is in ISO8859/1	1600105809 7
	B1601A	00.00 Only "End of Item" line displayed on message entry	1600107698* 1
FOLDER	B1601A	00.00 Folder functions within the wastebasket do not work properly	1600105007 7
OUTPUT	B1601A	00.00 Screen output from advmail that doesn't occur via JAM is in ISO8859/1	1600105809 7
PATCHED	B1601A	00.00 Screen output from advmail that doesn't occur via JAM is in ISO8859/1	1600105809 7
SCREEN	B1601A	00.00 Screen output from advmail that doesn't occur via JAM is in ISO8859/1	1600105809 7
WASTEBASKET	B1601A	00.00 Folder functions within the wastebasket do not work properly	1600105007 7

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*****none*****	B1600A	00.00 Temporary files gradually accumulate in the user 'g' directories	1600106716 25
ACKNOWLEDGEMENT	B1600A	00.00 Reply ACKs set on messages from Desk to OpenMail are not satisfied.	1600105171 16
	B1600A	00.00 Ack on message from PC Advmail to Desk user with name >26 chars errors	1600105296 17
ADVMAIL	B1600A	00.00 Cant put acks on a message forwarded from your pending tray.	1600103366 12
	B1600A	00.00 Delete part of message to be sent, get "Internal Error 5001."	1600103499 15
	B1600A	00.00 Wrong error message if edit non-writable file in "configuration" area	1600103531 15
	B1600A	00.00 Ack on message from PC Advmail to Desk user with name >26 chars errors	1600105296 17
AM HOST	B1600A	00.00 If BCC is an alias name the recipient does NOT see it when reading msg.	1600105619 22
CATALOG	B1600A	00.00 Unix gateway does not map host name correctly on reply	5000538389 27
	B1600A	00.00 Non-delivery text generated by Desk gateway can contain non-Roman8 chars	1600105965 22
DBVISTA	B1600A	00.00 Daemons are started but don't process any messages	1600106070 24
DESK	B1600A	00.00 Messages from unix mail to Desk, via OpenMail sometimes do not arrive	1600103358 10
DESK GATEWAY	B1600A	00.00 Non-delivery forwarded from OM to HP Desk to OM gets corrupted.	1600103317 10
	B1600A	00.00 Reply ACKs set on messages from Desk to OpenMail are not satisfied.	1600105171 16
	B1600A	00.00 Trailing spaces are removed on binary files sent between OM and Desk	1600105197 16
	B1600A	00.00 Messages from unix mail to Desk, via OpenMail sometimes do not arrive	1600105304 18
	B1600A	00.00 If text with control codes is sent from Desk to OM, text is lost	1600105452 21
DIRECTORY	B1600A	00.00 Non-delivery text generated by Desk gateway can contain non-Roman8 chars	1600105965 22
ENVIRONMENT	B1600A	00.00 X.400 ORNames require that a surname is entered	1600107656 26
FILE	B1600A	00.00 Function keys in omadmin are displayed badly if TERM is corrected.	1600106054 23
HANG	B1600A	00.00 ommodu does not change ownership of user's files	1600105312 19
HELP	B1600A	00.00 omon and omoif can appear to hang when CPU loop on the HP 9000.	1600103408 12
LOCAL DELIVERY	B1600A	00.00 The omshowdir MAN page references "genaddir"	1600106047 23
LOOP	B1600A	00.00 Large message sent to Openmail lost without trace	5000550467 27
MAILNODE	B1600A	00.00 Tight CPU loop stopping terminal over LAN if in compose editor.	1600103309 9
MODIFY	B1600A	00.00 Omadmin can produce "link layer" error when displaying a "*" mailnode	1600105361 20
OMADDDIR	B1600A	00.00 Bad error displayed for "List Directory by Mailnode" with no mailnode	1600105312 19
OMADMIN	B1600A	00.00 ommodu does not change ownership of user's files	1600106047 23
	B1600A	00.00 The omshowdir MAN page references "genaddir"	1600103424 13
	B1600A	00.00 Title half way down output with version listing to the printer.	1600103457 14
	B1600A	00.00 Add 2 users in omadmin. 2nd gets the password of the first.	1600105312 19
	B1600A	00.00 ommodu does not change ownership of user's files	1600105361 20
	B1600A	00.00 Omadmin can produce "link layer" error when displaying a "*" mailnode	1600105379 20
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Keyword	Product	uu.ff	Description	KPR number	page
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	B1600A	00.00	Screen output from omadmin that doesn't occur via JAM is in ISO859/1	1600105791	22
	B1600A	00.00	Function keys in omadmin are displayed badly if TERM is corrected.	1600106054	23
	B1600A	00.00	Refresh omadmin screen doesn't refresh softkeys	1600106823	25
OMCHECK	B1600A	00.00	omcheck complains about permissions on database and check files.	1600103432	13
OMEDIT	B1600A	00.00	Some 8-bit chars are not properly displayed by omedit	1600108134*	2
OMLOCKMGR	B1600A	00.00	Daemons are started but don't process any messages.	1600103358	2
OMOFF	B1600A	00.00	omon and omoft can appear to hang when CPU loop on the HP 9000.	1600103408	10
	B1600A	00.00	The usage errors for omon and omoft are syntactically incorrect	1600105270	17
OMON	B1600A	00.00	The usage errors for omon and omoft are syntactically incorrect	1600103408	12
	B1600A	00.00	omscan produces inaccurate number of kilobytes for each user	1600105270	17
	B1600A	00.00	omscan produces inaccurate number of kilobytes for each user	1600106385	24
OMSCAN	B1600A	00.00	Usage error message for omshowlog inconsistent with man page & omshowlog	1600105346	19
OMSHOWLOG	B1600A	00.00	omstore MAN page does not fully document openmail data restore process	5000550756*	2
OMSTORE	B1600A	00.00	omvers checks the n-computer message catalogs instead of checking \$LANG	1600106070	24
OMVERS	B1600A	00.00	Screen output from omadmin that doesn't occur via JAM is in ISO859/1	1600105791	22
OUTPUT	B1600A	00.00	Some 8-bit chars are not properly displayed by omadmin	1600105080	15
PATCHED	B1600A	00.00	omadmin doesn't have single line function key labels for vt100 & vt220s	1600105387	21
	B1600A	00.00	Screen output from omadmin that doesn't occur via JAM is in ISO859/1	1600105791	22
	B1600A	00.00	Function keys in omadmin are displayed badly if TERM is corrected.	1600106054	23
	B1600A	00.00	"Back-end" admin commands always o/p 8-bit chars in ISO859/1	1600106849	25
	B1600A	00.00	Printed output from 'omadmin' does not treat 8-bit chars correctly	1600106856	26
	B1600A	00.00	Unix gateway does not map host name correctly on reply	5000538389	27
PC	B1600A	00.00	Ack on message from PC Advmail to Desk user with name >26 chars errors	1600105296	17
PROCESS	B1600A	00.00	Usage error message for omshowlog inconsistent with man page & omshowlog	1600105346	19
SCREEN	B1600A	00.00	Screen output from omadmin that doesn't occur via JAM is in ISO859/1	1600105791	22
SERVICE	B1600A	00.00	Usage error message for omshowlog inconsistent with man page & omshowlog	1600105346	19
SERVICE ROUTER	B1600A	00.00	Recipient fields in an X.400 delivery report can contain illegal values	1600106120	24
	B1600A	00.00	Large message sent to Openmail lost without trace	5000550467	27
TERMINAL	B1600A	00.00	Tight CPU loop stopping terminal over LAN if in compose editor.	1600103309	9
TERMINALS	B1600A	00.00	omadmin doesn't have single line function key labels for vt100 & vt220s	1600105387	21
UNIX GATEWAY	B1600A	00.00	Messages from unix mail to Desk via OpenMail sometimes do not arrive	1600105304	18
	B1600A	00.00	Large message sent to Openmail lost without trace	5000550467	27

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- OPENMAIL/X.400 -

Keyword	Product	uu.ff	Description	KPR number	page
*****none*****	B1600X4	00.00	X400 Interface insisting on OR name in p2.ORDescriptor	1600107334*	3
	B1600X4	00.00	OpenMail/X.400 left t files in iq.	1600108068*	4
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Page: 1

KPR #: 1600107698 Product: ADVMAIL FOR TERMINAL B1601A

00.00

Keywords: ADVMAIL

One-line description:

Only "End of Item" line displayed on message entry

Problem:

Very occasionally when reading a message, only 'End of Item' is displayed even though the message exists. On re-reading the message it is displayed correctly. A timing problem exists between the U/I process and the Item Browser process.

KPR #: 1600107797 Product: ADVMAIL FOR TERMINAL B1601A

00.00

One-line description:

If BCC is a Public DistList then recips. do NOT see name when msg. read

Problem:

If a Public Distribution List name is used as a BCC recipient then the PDL recipients do not see themselves (ie. do not see the PDL recipient) on the Distribution List when the message is read. This occurs because the message browser does not currently have access to the expanded PDL and therefore can not determine whether any individual user should be able to see the BCCed PDL recipient name.

- ADVMAIL FOR TERMINAL -

Known Problem Reports as of 06/07/90

Page: 2

KPR #: 1600108134 Product: OPENMAIL

00.00

Keywords: OMEDIT

One-line description:

Some 8-bit chars are not properly displayed by omedit

Problem:

8 bit characters are not displayed properly on function key labels

KPR #: 5000550756 Product: OPENMAIL

00.00

Keywords: OMSTORE

One-line description:

omstore MAN page does not fully document openmail data restore process

Problem:

OpenMail will not run after restoring the data according to the MAN pages or the system administrator's manual. After restore, OMADMIN fails with a Vista data base error and will not allow services to be turned on. Restore was performed after the data had been altered so that the environment could be restored to a known state.

Cause:

The problem is due to some steps being omitted from the MAN page.

Temporary solution:

Problem was verified on an 835 system and a work around was identified. You must perform the following tasks to restore OpenMail data.

1. Shutdown all OpenMail services (use omadmin or omoff)
2. Kill the omlockmgr and advmail daemons
3. rm -r /users/openmail (delete all openmail files)
4. cd /
5. cpio -icdmux <filename (to restore openmail from a file)
6. cd /etc
7. omrc (execute openmail start up script)

The only step documented in the man pages or the admin manual was step number 5.

- OPENMAIL -

KPR #: 1600106278 Product: OPENMAIL/X.400 B1600X4 00.00

Keywords: GATEWAY

One-line description:

X.400 interface rejects incoming DeliveryReports if no IntermediateTrace

Problem:

X.400 interface rejects incoming DeliveryReports that do not have IntermediateTrace in the DeliveryReport Content.

Cause:

TraceInformation is mandatory in the Envelope of a DeliveryReport, but the IntermediateTraceInformation in the Content of a DeliveryReport is optional. The X.400 Interface insisted on both these elements being present in the DeliveryReport, when it should have only insisted on the former. Many other X.400 implementations do not insert Intermediate TraceInformation in the DeliveryReports they generate, and these Reports were thus rejected by the OpenMail/X.400 Interface.

Fix information:

This fix will be incorporated in the next release, but meanwhile, a patch is available which contains the fix - OpenMail Patch OM000002. The problem is fixed in the code by treating the Intermediate TraceInformation in the Content of DeliveryReports as an optional field, so no error is generated if it is not present.

KPR #: 1600107334 Product: OPENMAIL/X.400 B1600X4 00.00

One-line description:

X400 Interface insisting on OR name in p2.ORDescriptor

Problem:

The OpenMail/X.400 Interface rejects an incoming X.400 PDU if the ORDescriptor for the P2.PrimaryRecipient doesn't contain an ORName

Cause:

The OpenMail/X.400 Inmapper maps the recipients in the P2 portion of the X.400 PDU into the OpenMail distribution list only if the recipient ORDescriptor contains an ORName. However, a P2 ORDescriptor is allowed to contain either an ORName or a FreeFormName: the Inmapper was insisting (incorrectly) on the presence of ORNames in these ORDescriptors, and rejecting the PDUs otherwise.

Fix information:

This fix will be incorporated into the next release. Meanwhile, the OpenMail patch OM000006 will be available, which includes this fix. The problem has been fixed as follows - the Inmapper skips over the P2 Recipient ORDescriptors that don't contain ORNames, instead of rejecting the entire message

- OPENMAIL/X.400 -

KPR #: 1600108068 Product: OPENMAIL/X.400 B1600X4 00.00

One-line description:

OpenMail/X.400 left t files in iq.

Problem:

When the outbound mapper is converting OpenMail messages into X.400 PDUs, if it aborts because of an error, it sometimes leaving temporary files lying in the MTA's input queue.

Cause:

This problem occurs because of a programming error in the outbound portion of the X.400 interface, specifically an error in the executable /usr/openmail/bin/x400.out. When processing of a message terminates abnormally (because of an error), in some cases temporary files may be left in the MTA Input Queue (/usr/spool/x400/iq).

KPR #: 1600108191 Product: OPENMAIL/X.400 B1600X4 00.00

One-line description:

Timestamps generated by mappers had an offset that was wrong by 1 hour

Problem:

The offsets in the timestamps generated by the mappers were wrong by an hour

Cause:

The mappers used the HP-UX system variable "daylight" to compute whether an hour was to be added/subtracted for Daylight Savings Time. However, the "daylight" variable is always Set in places where the concept of Daylight Savings Time exists, whether or not it is in effect at that time of year. An error of one hour thus resulted when Daylight Savings Time went away and Standard time returned.

Fix information:

This fix will be incorporated into the next release. Meanwhile, the fix has been included in OpenMail patch OM000006. The fix is as follows: The "daylight" variable is only used to tell if the concept of Daylight Savings exists locally. A different flag, the tm_isdst flag in the "tm" structure, is used to tell if Daylight Savings Time is currently in effect, so the offset can be correctly computed.

KPR #: 1600108217 Product: OPENMAIL/X.400 B1600X4 00.00

One-line description:

Outmapper insists on ORNames being present in IPMsgIds (Ack Ids)

Problem:

The Outmapper rejects a message if an ORName is not present in the IPMessageId

Cause:

The Outmapper checks to see if the OpenMail message it is processing was created by the Inmapper, in which case it expects the Ack Id to be encoded the way the Inmapper would have done it, with the IPMsgId

- OPENMAIL/X.400 -

KPR #: 1600108217 **CONTINUED**

(IDstring + ORName) encoded into the Ack Id string. However, it is possible that the IPMsgId contained no ORName and only an IDstring, but the Outmapper isn't geared for this case, and returns an error when it finds no ORName in the Ack Id.

Fix information:

This problem will be fixed in the next release. Meanwhile, the fix has been included in the OpenMail patch OM000006. The fix is fairly straightforward - the OutMapper may look for an ORName in the Ack Id, but it doesn't complain if it doesn't find one.

KPR #: 1600108225 Product: OPENMAIL/X.400 B1600X4 00.00

One-line description:

X.400 PDU with binary bodypart encoded as plain Octet string is rejected

Problem:

Message containing a binary bodypart encoded as a simple Octet string, was rejected

Cause:

The OpenMail/X.400 mappers use the X.400 Intrinsic functions to read and create X.400 PDUs. The Intrinsic functions handle various kinds of bodyparts including Binary bodyparts. However, they did not handle the specific case where the Binary bodypart was a plain Octet string, and this caused the given X.400 message to be rejected.

Fix information:

The fix will be incorporated into the next release. Meanwhile, it has been included in OpenMail Patch OM000006. The fix is straightforward - it basically involves the Intrinsic being modified to handle the specific case where the Binary bodypart shows up as an Octet string, so the In mapper now accepts the PDU.

KPR #: 1600108233 Product: OPENMAIL/X.400 B1600X4 00.00

One-line description:

X.400 PDU rejected, if Binary bodypart is sequence of Octet strings

Problem:

Incoming X.400 Message containing a binary bodypart was rejected, though other tests with binary files have succeeded in the past.

Cause:

The mappers use functions from the X.400 Intrinsic library to access the X.400 PDU. The given binary file was encoded as a sequence of Octet strings, and the Intrinsic didn't handle this case, but returned an error instead.

Fix information:

The fixed version of the Intrinsic will be used in the next release. Meanwhile, the fix is available in OpenMail Patch OM000006. The fix itself simply consists of the Intrinsic being modified to handle the case where the binary bodypart is encoded as a sequence of Octet strings.

KPR #: 1600108241 Product: OPENMAIL/X.400 B1600X4 00.00

One-line description:

Outmapper fails while trying to create OpenMail NonDeliveryNotification

Problem:

Outmapper fails while creating a NonDelivery notification

Cause:

The Outmapper module involved in generating OpenMail NonDelivery Notifications had a local and a global buffer defined with the same name, resulting in a situation where the wrong buffer was used, without being initialized. The contents of the buffer were thus unknown, and ultimately caused the Outmapper to fail while creating the NDN.

Fix information:

This fix will be incorporated into the next release. Meanwhile, it has been included in OpenMail Patch OM000006. The fix simply involves using different names for the local and global buffers, so their names don't collide, and the correct buffer is initialized and used by the Outmapper.

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KPR #: 1600105007 Product: ADVMAIL FOR TERMINAL BI601A 00.00

Keywords: WASTEBASKET FOLDER

One-line description:
Folder functions within the wastebasket do not work properly

Problem:
If you enter the waste basket, press "FILE", "CREATE Folder", do not type a name, then "MOVE to folder" the message is removed from the screen display, even though it is not deleted.

Cause:
The term.ui program may not be dealing with the waste basket as a special case correctly

KPR #: 1600105544 Product: ADVMAIL FOR TERMINAL BI601A 00.00

Keywords: ADVMAIL

One-line description:
^L does not refresh function key labels - they are removed

Problem:
^L does not refresh function key labels (they are removed)

Cause:
Problem caused by JAM, function key labels are not supported properly on other than HP terminals. JAM does not really know the labels are there on a VT100/220

Fix information:
JAM internally traps the refresh key, it can be trapped only in some cases. Keys are now refreshed correctly where data entry is not required. It will now also refresh keys on an HP terminal under these circumstances.

KPR #: 1600105809 Product: ADVMAIL FOR TERMINAL BI601A 00.00

Keywords: ADVMAIL SCREEN OUTPUT
PATCHED

One-line description:
Screen output from advmail that doesn't occur via JAM is in ISO8859/1

Problem:
Screen output from advmail that does not occur via the JAM interface is always in the ISO8859/1 char-set. This occurs in 2 known places, the 'Type exit to return' message when breaking out to the shell, and the termination message. (Only affects localised version).

Cause:
Simple ISO???? -> ROMAN8 mapping needs to be added where needed.

Fix information:
Text printed outside of JAM is now converted where needed.

- ADVMAIL FOR TERMINAL -

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KPR #: 1600106963 Product: ADVMAIL FOR TERMINAL BI601A 00.00

One-line description:
Internal error 401 occurs when using shift/home after a re-order.

Problem:
An internal error, number 401, code: 0, occurs when shift/home is used after re-ordering a folder in the filing cabinet. This only occurs when there are too many folders in the filing cabinet to be displayed on one screen, and the folder being repositioned is on the second or subsequent screen, and is moved to a position on a previous screen.

- ADVMAIL FOR TERMINAL -

KPR #: 1600103309 Product: OPENMAIL

B1600A

00.00

Keywords: LOOP TERMINAL

One-line description:

Tight CPU loop stopping terminal over LAN if in compose editor.

Problem:

If either the terminal interface or the administration interface receive and end-of-file from their input, they will go into a tight CPU loop.

This seems to happen is when you have a data-switch that doesn't send a "hang-up" signal before it drops the line, or when you just get rid of a LAN connection before you have come out of the terminal interface or the administration interface.

You may see this problem when you do an "omstat -s" or "omstat -q" and they appear to hang. Or, "omon" and "omoff" may appear not to work. The "omon" and "omoff" problem is detailed in SR 1600-103408.

To see if you are having this problem, type:

```
ps -ef
```

and look for "term.ui" or "admin.prog" or "compose.edit" programs that have used more than about 30 minutes of CPU.

The amount of CPU that a process has used is given by field 7 of the "ps" output. The name of the program is given in field 8.

Cause:

The problem is due to the software ignoring end-of-file. The software keeps reading until it gets a character. When an end-of-file is hit, the software simply attempts the read again. Each repeated read will get end-of-file, resulting in the software "looping".

Temporary solution:

You must kill the programs that are using up CPU. Log on as root and type:

```
kill -1 PID
```

where PID is the PID of the program you identified as specified in the "submitter text". The PID of the process is given in field 2 of the "ps" output.

There is a script called "ommon" that will look for such situations. If you type "man ommon", it will tell you about this script.

If you're using a data-switch you should reconfigure it to issue a "hang-up" signal before dropping lines.

If you are using LANs, then don't drop the LAN connection before coming out of the terminal and administration user interfaces.

Fix information:

- OPENMAIL -

KPR #: 1600103309 **CONTINUED**

EOF is now correctly handled.

Duplicate Service Requests: 1600105049

KPR #: 1600103317 Product: OPENMAIL

B1600A

00.00

Keywords: DESK GATEWAY

One-line description:

Non-delivery forwarded from OM to HP Desk to OM gets corrupted.

Problem:

If you forward a non-delivery notification from your OpenMail Inray into HP Desk and then back into OpenMail, you will get an error when trying to read the forwarded non-delivery.

Cause:

The record size of the non-delivery is filled to 256 because it is binary. This happens when going from OpenMail to HP Desk. When it comes back from HP Desk, OpenMail treats it as corrupt because there are trailing nulls.

KPR #: 1600103358 Product: OPENMAIL

B1600A

00.00

Keywords: OMLCKMGR DBVISTA

One-line description:

Daemons are started but don't process any messages.

Problem:

When any one of the OpenMail daemons accesses the database, it does so through a program called "/usr/openmail/bin/omlockmgr". As its name suggests, this program manages the locking of the database.

When you start an OpenMail daemon, the omlockmgr program must be running. However, you can kill the omlockmgr program while the OpenMail daemon is running, and the daemon will not notice.

If another omlockmgr program is started while the OpenMail daemons are running, they will not "see" the new omlockmgr.

The result is that all calls to the database will hang indefinitely because they are waiting for a response from a non-existent lock manager program.

Cause:

The problem is due to the database access routines not detecting that the omlockmgr is no longer running (or a new omlockmgr process has been started, which does not know anything about the existing processes attempting to access the database).

Temporary solution:

To verify that you have this problem, type

```
omstat -s
```

- OPENMAIL -

KPR #: 1600103457 **CONTINUED**

However, as this behavior is a probable source of confusion, whenever the cursor is in the "Name" field of the add user screen, a message warning the administrator that the password doesn't get changed between adding users is now displayed.

KPR #: 1600103499 Product: OPENMAIL B1600A 00.00
Keywords: ADVMAIL

One-line description:

Delete part of message to be sent, get "Internal Error 5001".

Problem:

If you create a message and compose some text, then include a file, then delete the next part and try to mail a message, you get an "Internal Error 5001".

Cause:

The terminal interface builds up a list of the parts of the message that you are creating. If you delete any part of this message, the list is not updated. When you go to mail the message, the list does not correspond to the parts that are really present, and the terminal interface gives out the "Internal Error 5001".

Temporary solution:

After the Internal Error 5001, advmail will stop. If you go back into Advmail and go into your Outtray, you can mail the message without any problems.

KPR #: 1600103531 Product: OPENMAIL B1600A 00.00
Keywords: ADVMAIL

One-line description:

Wrong error message if edit non-writable file in "configuration" area

Problem:

You enter the text editor from the "configuration" screen of the terminal interface. You opt to edit a file that you can't write to. You then specify one to which you can write. You edit the second file and save it. The "advmail" status line reads "Selected file name cannot be written". The file has been saved, however.

Cause:

Error status from non-writable file appears not to be being cleared

KPR #: 1600105080 Product: OPENMAIL B1600A 00.00
Keywords: PATCHED

One-line description:

Some 8-bit chars are not properly displayed by omadmin

Problem:

Some 8-bit characters are converted to a space when displayed

- OPENMAIL -

KPR #: 1600105080 **CONTINUED**

by omadmin.
This happens for text that is derived from the back-end programs and then displayed in a field, and also for softkey labels.

Cause:

The software didn't correctly handle characters with the high bit set.

Fix information:

The omadmin program has been modified to circumvent this problem.

This is fixed in patch release A.00.00.01

KPR #: 1600105171 Product: OPENMAIL B1600A 00.00
Keywords: DESK GATEWAY ACKNOWLEDGEMENT

One-line description:

Reply ACKs set on messages from Desk to OpenMail are not satisfied.

Problem:

Reply acks on messages sent from HP Desk to OpenMail, do not get satisfied.

In fact, the reply appears as a simple message. There is no

indication to the desk user that the message is actually a reply.

Cause:

At the time OpenMail released, the supported version of HP Desk, (B.03.B0) had an fault which prevented OpenMail from sending REPLY type messages into the HP Desk network. To overcome this problem, the OpenMail - HP Desk gateway converts any Replies from OpenMail users into simple messages before they are passed into HP Desk. This prevents reply acks from being satisfied

KPR #: 1600105197 Product: OPENMAIL B1600A 00.00
Keywords: DESK GATEWAY

One-line description:

Trailing spaces are removed on binary files sent between OM and Desk

Problem:

If a shar file is sent from OpenMail to HP Desk, and then back to OpenMail, the file fails to unpack the binary parts due to trailing spaces being removed.

Cause:

On all messages sent from HP Desk to OpenMail, trailing spaces are removed. This prevents double spaced text appearing in messages read using unix mail. A side effect of this is that shar files, in which spaces at the end of the line are significant are corrupted.

- OPENMAIL -

KPR #: 1600105270 Product: OPENMAIL B1600A 00.00
Keywords: OMOFF OMON

One-line description:
The usage errors for omon and omooff are syntactically incorrect

Problem:
The usage error messages for omon and omooff are incorrect syntactically.

They show:
Usage: <command> [-d delay] -s service... | -f filename

They should show:
Usage: <command> [-d delay] -s service...
Usage: <command> [-d delay] -f filename

The man page for these commands shows the correct form.

Cause:
The usage error (as displayed) in the message catalog is incorrect.

KPR #: 1600105296 Product: OPENMAIL B1600A 00.00
Keywords: ACKNOWLEDGEMENT ADVMAIL PC

One-line description:
Ack on message from PC Advmail to Desk user with name >26 chars errors

Problem:
Ack set on message from PC AdvMail user to HPDesk user whose name length exceeds 26 characters (eg. Maurice ABRAHAM / HP1600/01) will a -5003 error when the Ack is returned and down-loaded to the PC. This will happen once per message recipient whose name exceeds 26 chars but after that the fault is cleared.

Cause:
The error is caused after the Acknowledgement information has been transferred to the PC and the ACK is being deleted on the host. As part of the generic delete operation the temporary list is updated. This should not be done for ACK lists, and an invalid list handle is picked up if the recipient name exceeds 26 characters, otherwise a NULL handle is successfully used.

Temporary solution:
The error occurs after the ACK has been processed, it will only occur once for each long recipient name, so AdvMail will run successfully if re-entered unless there are more Acks from HPDesk recipients whose names exceed 26 chars.

Fix information:
Code fixed to deal with the deletion of Full acks properly.

- - OPENMAIL -

KPR #: 1600105304 Product: OPENMAIL B1600A 00.00
Keywords: UNIX GATEWAY DESK GATEWAY DESK

One-line description:
Messages from unix mail to Desk, via OpenMail sometimes do not arrive

Problem:
This fault concerns mail sent to HP desk recipients, from Unix mail via OpenMail.

If the desk recipient is addressed, using only a location, then spurious characters can be placed in the sublocation and foreign address parts of the recipient address, as the message passes through the OpenMail - Hp Desk gateway.

eg Smith_John/HPDesk used instead of Smith_John/HPDesk_ma

where HPDesk is the heirarchic location of the HP Desk user John Smith and ma is his sublocation.

These spurious characters may cause HP Desk to reject the recipient. The sender of the message would then get a non - delivery report for the recipient who appears to the sender, to be perfectly valid.

If the sublocation of the desk recipient is specified, then the fault does not show itself.

Cause:

The OpenMail - HP Desk gateway, accesses a translation table when conversion from OpenMail to Hp Desk mailnodes is performed. If no translation is found, the first two OpenMail Urg Units are parsed as an HP Desk location and sublocation.

The gateway is not initialising the location and sublocation fields before a lookup in the translation table is performed. If no lookup is found and no sublocation was specified then the sublocation will contain a random string of bytes. This random string can also extend into the foreign address field of HP desk recipient record.

Temporary solution:

1. Ask the sender to specify the full HP Desk mailnode, including the sublocation, not just the location.
2. OR configure translations in the HP Desk Gateway mailnode translation table for HP Desk heirarchic mailnodes.

eg if 'hpdesk' is a heirarchic mailnode, configure a translation as follows, using omain:

OpenMail
Mailnode

HPDesk
Loc/Subloc

hpdesk

hpdesk

- - OPENMAIL -

KPR #: 1600105304 **CONTINUED**

Fix information:

The outbound desk mapper, 'dko.out' was modified. The address mapping routines were at fault and have been updated.

KPR #: 1600105312 Product: OPENMAIL B1600A 00.00
Keywords: MODIFY FILE OMADMIN

One-line description:
ommodu does not change ownership of user's files

Problem:
Changing the unix login of an openmail user using the ommodu command (e.g. ommodu -o butler -u pete) doesn't change the unix ownership of his openmail files (such as his "u" directory). This can then cause problems later.

Cause:
The ommodu program does not check for files that need their ownership changed. It should change any dependent files (such as their "u" directory).

Temporary solution:
As root do the following :
cd into "openmail/user"
Look for a directory which is owned by the old user.
If there is one, then there should only be one, and its name should start with u and be followed by 6 alphanumeric chars.
If there isn't one, then cd into "openmail/user01 and look.
Repeat this, looking in "openmail/user02, "openmail/user03,... until the directory owned by the user is found.
cd into it.

Execute the following find command to change the ownership of all the files & directories of the user :
find . -exec chown "newowner" {} \;

Fix information:
ommodu now changes the ownership of the u?????? directory.

KPR #: 1600105346 Product: OPENMAIL B1600A 00.00
Keywords: OMSHOWLOG SERVICE PROCESS

One-line description:
Usage error message for omshowlog inconsistent with man page & omshowlog

Problem:
Usage error message for omshowlog implies that a sub-component of a service can be used as a selection criteria, e.g. -s service[.process] The man page does not describe the .process option, and specifying one gives an "Incorrect format for service" error.

Cause:
The problem is due to an error in the usage message given by omshowlog. The usage error should only refer to -s service [without the [.process]]

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KPR #: 1600105346 **CONTINUED**

bit).

KPR #: 1600105361 Product: OPENMAIL B1600A 00.00
Keywords: OMADMIN MAILNODE

One-line description:
Omadmin can produce "link layer" error when displaying a "*" mailnode

Problem:
In omadmin, go to the "Local Users" screen, select "Show By Mailnode" action. Enter * for the mailnode. Get "[OM 8005] The mailnode contains invalid characters" error, or "[OM 8010] the address contains a dot, which is an invalid character" error.
Then next time the "Local Users" screen is entered, an invalid list of users is shown.

Cause:
omadmin runs back-end programs to actually perform its administration. To show all users, omshowu -m is run.
omadmin should trap the "*", but doesn't.
So, what happens is that omshowu -m * is run, and of course the * gets expanded to the names of all of the files in the current working directory.....

Temporary solution:
If you want to get a list of users at all addresses on the machine, use "all" instead of "*".
If you do use "*" and mess up the local users screen, then it can be restored by (from the local users screen) :
1) hitting the "Action Menu" softkey,
2) Select Show by MNode
3) When the Define Mailnode window appears, hit Clear Line, and enter "all" as the mailnode, and press Perform Query.

Fix information:
The address field passed onto the back-end program is now quoted to prevent its expansion by the shell.

KPR #: 1600105379 Product: OPENMAIL B1600A 00.00
Keywords: OMADMIN MAILNODE

One-line description:
Bad error displayed for "List Directory by Mailnode" with no mailnode

Problem:
omadmin - List Directory by Mailnode. If no mailnode is specified the error message displayed is incorrect, it says use "-m "all", to list all the names whereas the wildcard character '*', must be used.

Cause:
"*" is allowed because omadmin and omshowdir allow

- OPENMAIL -

KPR #: 1600105379 **CONTINUED**

wildcarding in mailnodes when listing the directory.
The error message generated when nothing is given for the
mailnode to search for is wrong.

KPR #: 1600105387 Product: OPENMAIL B1600A 00.00

Keywords: OMADMIN TERMINALS PATCHED

One-line description:
omadmin doesn't have single line function key labels for vt100 & vt220s

Problem:
omadmin does not have any single line function key labels for use with
vt100 and vt220 terminal. In all cases the 1st line of the 2 line
function keys are used. This results in confusing or incorrect labels
appearing when omadmin is used on a vt100/vt220 terminal.

Cause:
The functionality to allow single line function key labels for use
with vt100 and vt220 terminals was not added to omadmin (as it was
to the advmail terminal interface).

Temporary solution:
Whenever possible, use an HP terminal for running omadmin.

Fix information:
omadmin has been enhanced to have single line function keys

This is fixed in patch release A.00.00.01

KPR #: 1600105452 Product: OPENMAIL B1600A 00.00

Keywords: DESK GATEWAY

One-line description:
If text with control codes is sent from Desk to OM, text is lost

Problem:
If a text containing control codes, eg a formatted TDP file, is sent
from HP Desk to OpenMail most of the text is lost.

Cause:
The problem occurs because DSCOPY copies over the control codes
to the HP-UX machine, and most control codes generated by TDP are
NULL (ascii value 0), which is treated as end of string (line) in
HP-UX/C. This problem will occur with other spool files that contain
NULLs as control code characters.

Fix information:
The inbound desk gateway will now detect lines in text files
that begin with the null char. This character is then replaced
with a space. Other control characters are passed through unchanged.

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KPR #: 1600105619 Product: OPENMAIL B1600A 00.00

Keywords: ADVMAIL

One-line description:
If BCC is an alias name the recipient does NOT see it when reading msg.

Problem:
BCC name in a distribution list is not displayed to that user if the
original BCC name was an alias.

Cause:
When a distribution list is displayed a BCC name is compared with the
name of user browsing the message. If the names match then the BCC
name is displayed, if not then the BCC is not displayed. If the
original BCC name is an alias then the original name in the
Distribution List will not match that of the recipient, so the
recipient will not see his/her name (or an alias of it) when
browsing the message.

KPR #: 1600105791 Product: OPENMAIL B1600A 00.00

Keywords: OMADMIN SCREEN OUTPUT
PATCHED

One-line description:

Screen output from omadmin that doesn't occur via JAM is in IS08859/1

Problem:

Screen output from omadmin that does not occur via the JAM interface
is always in the IS08859/1 char-set. This occurs in 3 known places,
the copyright message at the beginning, the 'Type exit to return'
message when breaking out to the shell and the termination message.

Cause:
simple ISO???? -> ROMAN8 mapping needs to be added where needed

Fix information:
Text printed outside of JAM is now converted where needed.

KPR #: 1600105965 Product: OPENMAIL B1600A 00.00

Keywords: DESK GATEWAY CATALOG

One-line description:

Non-delivery text generated by Desk gateway can contain non-Roman8 chars

Problem:

When an OpenMail non delivery report is sent though the OpenMail -
HP Desk gateway, into HP Desk, the report is converted into a
textual message. The text of this message is localisable.

The character set used for localised text is IS08859/1. The localised

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KPR #: 1600105965 **CONTINUED**

report text is not converted to the roman8 character set used by HP Desk. The result, the non delivery report text, received by an HP Desk user IF a localised version of OpenMail is being used, may well contain incorrect characters.

Cause:
The desk outbound mapper is assuming that the localised non delivery report text is in the roman8 character set, whereas the localised text is in fact in ISO8859/1 character set.

KPR #: 1600106047 Product: OPENMAIL BI600A 00.00

Keywords: OMADDDIR HELP

One-line description:
The omshowdir MAN page references "genaddir"

Problem:
There is a reference to "genaddir" on the last line of the description section of the "omshowdir" man page. The reference should be to "omaddir" instead.

Cause:
The man page was written before the name of the product was known. Once the name of the product was known, the names of the commands were finalised. However, although most of the man pages, etc, were updated, the last line of this page was missed.

Fix information:
The text of the man page has been corrected to refer to "omaddir" instead of "genaddir".

KPR #: 1600106054 Product: OPENMAIL BI600A 00.00

Keywords: OMADMIN ENVIRONMENT PATCHED

One-line description:
Function keys in omadmin are displayed badly if TERM is corrected.

Problem:
If 'omadmin' is entered with an illegal TERM environment variable set then an english-language message is always displayed and when a valid term-type is entered the function keys in omadmin are displayed badly.

Cause:
omadmin is a shell script which sets up the environment for the actual administration program, admin.prog.
omadmin should make sure that \$TERM is set to something valid, but instead its leaving this for admin.prog to do, which it can't.

Temporary solution:
Make sure that \$TERM is a valid value BEFORE running omadmin.
Valid values are : hp hp2622 hp2392 hp2392a HP HP2392 HP2392A 2392 vt220 vt100

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KPR #: 1600106054 **CONTINUED**

Fix information:

The script omadmin has been modified to make sure that \$TERM is valid before it runs admin.prog.

This is fixed in patch release A.00.00.01

KPR #: 1600106070 Product: OPENMAIL BI600A 00.00

Keywords: OMVERS CATALOG

One-line description:
omvers checks the n-computer message catalogs instead of checking \$LANG

Problem:
omvers only checks the message catalogs in the /usr/lib/nls/n-computer directory. Message catalogs in other directories are not checked.

Cause:
Omvers only looks at OpenMail message catalogs in the OM_MESSCATS_DIR directory, which is defined as /usr/lib/nls/n-computer. It ought to either take account of the \$LANG variable, or look at all the installed OpenMail message catalogs.

KPR #: 1600106120 Product: OPENMAIL BI600A 00.00

Keywords: SERVICE ROUTER

One-line description:
Recipient fields in an X.400 delivery report can contain illegal values

Problem:
The PerRecipient fields in an X.400 delivery Report PDU sent out of the OpenMail/X400 system can contain illegal values for the Report Request Bits (Bits 1 and 2). The bits are always cleared to zero, a value marked as 'Not Used' in X.411

Cause:
The problem, is that the OpenMail Service router is not preserving the recipient info fields in the original message. The fields are effectively cleared.

Fix information:
The OpenMail service router has been modified to preserve the recipient info when routing the original message.

KPR #: 1600106385 Product: OPENMAIL BI600A 00.00

Keywords: OMSCAN

One-line description:
omscan produces inaccurate number of kilobytes for each user

Problem:
The report of disc usage by each OpenMail user given by omscan is inaccurate. Most of a message is attributed to one user, the remaining

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KPR #: 1600106385 **CONTINUED**

part of the message is attributed to every other user in receipt of it.

KPR #: 1600106716 Product: OPENMAIL B1600A 00.00

One-line description:
Temporary files gradually accumulate in the user 'g' directories

Problem:

The temporary files created in the user 'g' directories by Terminal users are never deleted (not even by omscan).

Cause:

The deletion of these files fail because they are treated as User/User files instead of Openmail/User files.

Temporary solution:

Periodically these files must be deleted manually, this can be done by executing the following command while running as root:
find /users/openmail/user/g* -name 'tmp*' -exec rm {} \;

** N.B. only do this when there are no active Openmail users on the system (terminal or PC). Executing this command as part of the normal omscan script would be a reasonable thing to do.

Fix information:

Code corrected to treat temporary files in the Openmail/User directory as Openmail files when deleting them.

KPR #: 1600106823 Product: OPENMAIL B1600A 00.00

Keywords: OMADMIN

One-line description:

Refresh omadmin screen doesn't refresh softkeys

Problem:

In omadmin, the refresh key does not redraw the softkeys.
On a vt100, this has the effect of making any visible softkeys disappear

Cause:

The underlying screen/forms handling package does not refresh softkeys when told to refresh the screen.

Fix information:

Refresh now explicitly redraws the softkeys.

KPR #: 1600106849 Product: OPENMAIL B1600A 00.00

Keywords: PATCHED

One-line description:

"Back-end" admin commands always o/p 8-bit chars in ISO8859/1

Problem:

'Back-end' admin commands do not convert 8-bit chars to Roman-8 in

KPR #: 1600106849 **CONTINUED**

their output displays.

Cause:

The back-end commands output strings picked up from the messcat unchanged. These strings reside in the messcat in ISO8859/1 charset format - they need to be translated into HPRoman-8 if the user is using an HP terminal.

Fix information:

Script produced for each back-end command that filters output to produce Roman-8 characters if HP terminal is being used. These scripts are installed in:

/usr/openmail/hpbin

This directory needs to be added to an administrator's PATH to be searched BEFORE /usr/openmail/bin for this fix to work.

This is fixed in a patch available from the global patch machine.

KPR #: 1600106856 Product: OPENMAIL B1600A 00.00

Keywords: PATCHED

One-line description:

Printed output from 'omadmin' does not treat 8-bit chars correctly

Problem:

Printed output from 'omadmin' that contains 8-bit character does not produce correct printed output.

Cause:

Output for the printer from omadmin can contain 8-bit characters in the ISO8859/1 charset - these characters need to be translated to Roman-8.

Fix information:

All printed output from omadmin is piped through the script omputhdr. This script has been modified to convert ISO8859/1 characters to Roman-8 characters. (There is one exception, the script 'omscanat' - this script has been modified explicitly.)

This is fixed in a patch available from the global patch machine.

KPR #: 1600107656 Product: OPENMAIL B1600A 00.00

Keywords: DIRECTORY

One-line description:

X.400 ORNames require that a surname is entered

Problem:

A surname must be entered when entering ORNames that do not have to contain a Surname. For example when entering a Form 1 Variant 3 or a Form 2 ORName a surname must entered - this can be confusing since the actual X.400 ORName does not contain a surname.

KPR #: 1600107656 **CONTINUED**

Cause:

The surname is required because it is used as a key by the lookup directory.

KPR #: 5000538389 Product: OPENMAIL B1600A 00.00

Keywords: AM HOST PATCHED

One-line description:

Unix gateway does not map host name correctly on reply

Problem:

When a message is sent through unix mail, into OpenMail and then back to unix mail again (e.g. via a public dist list), if the sending unix user's address contains a @, % or !, then the recipient might not be able to reply to the message.

Cause:

The problem is due to the OpenMail unix gateway not converting the special characters @, % and ! to something else (for the sender, etc) when the message is passed to unix mail. The characters should be converted to something else so that the unix mail does not attempt to use these for routing of reply, but instead passes the message back to OpenMail.

Fix information:

The outgoing part of the unix gateway has been modified to map the characters @, % and ! to the strings #a#, #p# and #e# respectively. The incoming part of the unix gateway has been modified to map the strings back again. This is similar to the mapping of other characters that are special to unix mail sender/recipient names (e.g. blank maps to #b#).

KPR #: 5000550467 Product: OPENMAIL B1600A 00.00

Keywords: UNIX GATEWAY LOCAL DELIVERY SERVICE ROUTER

One-line description:

Large message sent to Openmail lost without trace

Problem:

Two problems can occur that result in the loss of a message if OpenMail runs out of disc space.

1. If the OpenMail Service Router runs out of disc space when it is routing a message, some of the content of the message's Transaction File may be lost.
2. If the Service Router, Local Delivery or the Outgoing Transport process runs out of disc space, it attempts to put the message on the #ERROR queue before continuing. However, if it fails to put the message on the #ERROR queue, it will still continue (effectively discarding the message).

Cause:

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KPR #: 5000550467 **CONTINUED**

Problem #1 may occur because the Service Router copies the Transaction File as it "routes" the message, but it doesn't "flush" and "sync" to disc the buffers of the new Transaction File before removing the old Transaction File. If it is possible for the "flush" and "sync" to fail due to lack of disc space.

Problem #2 occurs because of the way the Service Router, Local Delivery and Transport Outgoing processes were written to "continue no matter what happens". This should not be the case if it can result in the loss of messages.

Fix information:

Problem #1 has been fixed by modifying the Service Router to "flush" and "sync" the new Transaction File before removing the old one.

Problem #2 has been fixed by changing the Service Router, Local Delivery and the Outgoing Transport to terminate (abort) if they fail to process a message AND they fail to put the message on the #ERROR queue.

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KPR #: 1600105163 Product: OPENMAIL/X.400 B1600X4 00.00

Keywords: X.400 ERROR MESSAGE

One-line description:

The X.400 error messages are in the wrong part of the PSS

Problem:

The X.400 error messages are tacked onto the end of the X.400 "solution" part in the problem solving system (omsolve). They should have their numbers put against them in the "detail" section.

Cause:

There is no X.400 option in the "details" section of the Problem Solving System (omsolve). For this reason, the "details" were added to the end of the X.400 text in the "solutions" section. There should really be an X.400 option in the "details" section.

Temporary solution:

If an specific X.400 problem occurs (with a given error number), then look for it in the "solutions" section rather than the "details" section, and continue to page down the text until the text for the particular error is displayed.



SOFTWARE STATUS BULLETIN PREFACE

This Software Status Bulletin (SSB) documents all Known Problem Reports for the products designated on the cover page.

Reports that are received at the factory are referred to as SRs, or Service Requests. Once a report is verified by a factory engineer, it is referred to as a Known Problem Report or KPR. An identification number is assigned to the KPR and it is included in the next SSB.

New reports can be submitted using the forms at the back of this report.

WHAT'S INCLUDED

Software problems such as coding errors, design flaws, documentation errors, and communications/network problems.

A fix date is included in reports after a problem is corrected. When a new software release is available, all problems that are corrected in that release are reported in the SSB and the appropriate Known Problem Reports are removed.

WHAT ISN'T INCLUDED

- o Problems that cannot be duplicated
- o Requests for enhancements
- o Misunderstandings about an application or a feature

HOW TO USE THE SOFTWARE STATUS BULLETIN INDEX

The SSB is divided into 5 sections:

- o SOFTWARE RELEASE CONTENTS. This table cross-references product names with product numbers or other product identification (when there is no product number).
- o CUMULATIVE PRODUCT INDEX. Known Problem Reports are grouped by product; this index tells you where KPRs start for a specific product.
- o CUMULATIVE KPR NUMBER INDEX. Useful if you already know what the KPR number is for a given report.
- o CUMULATIVE KEYWORD INDEX. This is the best way to find a problem report. The KPRs are sorted here by product name (check the middle of the page), keyword (which is really a classification of of problems--C-ERROR meaning code error and D-ERROR meaning design error), product number, problem identification number, and an

abbreviated one-line description of the problem. An asterisk at the end of the KPR number indicates a new KPR since the last publication.

- o KNOWN PROBLEM REPORTS. These reports contain complete information on each problem.

HOW TO LOOK UP A PROBLEM REPORT

Use the following steps to find a report for a specific problem:

1. Use the SOFTWARE RELEASE CONTENTS (at the front of the index) to determine under which product name you should look.
2. Now that you know what product name you're looking for, you can either:
 - a. Look in the CUMULATIVE PRODUCT INDEX to find out where the reports start for a specific product. Turn to the page noted and scan through the reports.
 - b. Or, turn to the CUMULATIVE KEYWORD INDEX; find the heading for the product you're looking for. The headings are centered over the text and are easy to miss. Make sure you're looking at reports for the right product.

Once you locate the product you're looking for, scan through the one-line descriptions. When you find what you're looking for, you can read the complete problem report by turning to the page noted.

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	B1161A	00.00 man pg XHPNlioc1 (3x) arg parameter should be int for some commands	39000009142	2
	B1161A	00.00 Manual does not explain how to use -C option (console output)	39000009167	2
	B1161A	00.00 man pages do not correspond to actual call	39000009241	2
	B1161A	00.00 Online man pages for many of (Motif) widget calls display incorrectly	39000009258	3
	B1161A	00.00 No documentation is provided on how to use block term mode of hpterm	5000538942	4
	B1161A	00.00 7.0 Version of Install & Config does not explain set up procedures for X	5000540823	4
	B1161A	00.00 7.0 Beginner's Guide wrong on pg. 6-2. csh does not use '[' for test	5000544791	4
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	82320A	05.50 Manual doesn't explain how to pop-up menu from program	5000206268	5
	82320A	05.50 xterm does not recognize Backspace key when using \$HOME/.Xkeymap file.	5000228676	6
	82320A	05.50 CreateTTYWindow call doesn't work w/ release 5.5	5000253872	6
	82320A	05.50 wxinstall, pre 6.2, will alter and remove related files in /usr/bin	5000274225	7
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	B1155A	B3.00 With hpterm in pointer blank mode, the pointer blanks on shift & meta	39000007807	8
	B1155A	B3.00 The Fortran bindings don't return a function pointer correctly	39000007815	8
	B1155A	B3.00 X Server defaults to using /dev/crt, should be /dev/crt0 on s800	39000007823	9
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	B1155A	00.03 All special properties have parsing problems in xfc.	39000007856	9
	B1155A	00.03 Bitmap with-nodashed, then do invert all results in lines becoming dots	39000007864	10
	B1155A	00.03 hpwm title remains pushed in when concurrent interact. place is done	39000007880	10
	B1155A	00.03 Hpwm.man says f.refresh will actis like f.refresh in root context.	39000007898	10
	B1155A	00.03 Textedit widget created with empty file, change to full file, hang	39000007914	10
	B1155A	00.03 icon over save button in save view in hpwm. Both get select signal.	39000007922	11
	B1155A	00.03 hpwm interactive placement when mouse is busy - window (0,0) can't move	39000007930	11
	B1155A	00.03 "<BtnUp> title f.raise lower" only does f.raise in hpwm	39000007948	11
	B1155A	00.03 Unexpected window position with negative geometry co-ordinates.	39000007955	12
	B1155A	00.03 XtNtTitlePosition defined differently for 2 different widgets	39000007963	12
	B1155A	00.03 type converters in libXw don't generate warning on bad conversions	39000007971	12
	B1155A	00.03 TextEditP.h: uses defines XTextEditPrivate_h instead of _XTextEdit...	39000007989	13
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	B1155A	00.03	00.03	monochrome 2 format image handled incorrectly in 'xpr' and 'xwd2sb'	3900008029	14
	B1155A	00.03	00.03	xwcreate indicates an invalid background pixel when using TSRX display.	3900008037	14
	B1155A	00.03	00.03	In xpr-trailer string truncated by 1 char when append -noff spec. after	3900008045	15
	B1155A	00.03	00.03	xwcreate does not give an error for exceeding window count.	3900008052	15
	B1155A	00.03	00.03	-depth arg <= 0 in xwcreate, s/b 'invalid window depth', not 'bad option	3900008060	15
	B1155A	00.03	00.03	In hpterm, an extra cursor appears after pressing [Next][Next]	3900008078	15
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	B1155A	00.03	00.03	HP98556 and STACKED SCREENS Mode: colormap hosed when server resets	3900008185	20
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Keyword	Product number	uu.ff Description	KPR number	page
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	B1152A	00.03 Shell doesn't account for border width of its child.	3900006189	31
	B1152A	00.03 The 2 byte string "\n" is treated as a newline like the 1 byte '\n'.	3900006197	32
	B1152A	00.03 StaticRoster will choose it's size wrong.	3900006205	32
	B1152A	00.03 Certain increments of highlight thickness can be lost.	3900006213	32
	B1152A	00.03 VPane Widget setting invalid padding and border_frame causes Xtoolkit Er	3900006221	32
	B1152A	00.03 Shell: a realized shell doesn't resize to the size of its new children	3900006239	33
	B1152A	00.03 SWin: produces a valuator warning on some resizing.	3900006247	33
	B1152A	00.03 XtNinsetPosition is defined for both TextEdit and Manager classes.	3900006254	33
	B1152A	00.03 TextEdit: Editing text in middle of buffer messes up selection.	3900006262	34
	B1152A	00.03 TextEdit: Doesn't reset margins when highlight_thickness changes.	3900006270	34
	B1152A	00.03 TextEdit: clears an area of shadow on inputting characters.	3900006288	34
	B1152A	00.03 TextEdit Widgets occasionally drop the first char of a line of text.	3900006296	35
	B1152A	00.03 Assorted TextEdit code deficiencies.	3900006304	35
	B1152A	00.03 XtNFile resource cannot be modified through SetValues.	3900006312	35
	B1152A	00.03 The macro DefaultDepth returns incorrect depth on many displays.	3900006320	36
	B1152A	00.03 Deleting translations can cause problems.	3900006338	36
	B1152A	00.03 TextEdit: Segmentation Fault when Writing from empty cut buffer.	3900006346	36
	B1152A	00.03 Spring-loaded popup widgets don't interact well with keyboard focus.	3900006353	37
	B1152A	00.03 Destroying popup children, then their parent widget, dumps core.	3900006361	37
	B1152A	00.03 TextEdit forgets Leave callback if highlight_traversal is set	3900006379	38
	B1152A	00.03 Malloc failure causes Server to terminate.	3900006403	38
	B1152A	00.03 DisplayHeightMM() and WidthMM() return same values for all displays.	3900006411	38
	B1152A	00.03 keyyms for left and right quote on german keyboard are backwards.	3900006429	38
	B1152A	00.03 XGrabPointer will not confine to a root window	3900006437	39
	B1152A	00.03 root-window backing store malfunctions	3900006445	39
	B1152A	00.03 SRX server in stacked mode leaves the wrong screen showing at startup.	3900006452	39
	B1152A	00.03 Text output causes mouse cursor to flicker even if window is unmapped.	3900006460	39
	B1152A	00.03 rtprio on any X process can cause deadlock.	3900006478	40
	B1152A	00.03 XSetModifierMapping allows duplicate key codes in a keymap.	3900006486	40
	B1152A	00.03 Output to UNMAPPED window (with BackingStore) NOT there when W is mapped	3900006494	40
	B1152A	00.03 CopyPlane, CopyArea and backing store may not copy everything	3900006502	41
	B1152A	00.03 XQueryColors Xlib function returns incorrect results	3900006510	41
	B1152A	00.03 Popping up a uwm menu over a bitmap grid can black out grid markers.	3900006528	42
	B1152A	00.03 hpterm dies when changing colors if colormap is full	3900006536	42
	B1152A	00.03 hpterm ignores '\STOP' key.	3900006544	42
	B1152A	00.03 In hpterm, <esc>&jA displays the wrong menu (should be modes).	3900006551	42
	B1152A	00.03 In hpterm, cursor is left in incorrect position after processing <esc>d.	3900006569	43
	B1152A	00.03 In hpterm, pastes of >-512 chars drop data (s800 only).	3900006577	43
	B1152A	00.03 In hpterm, <esc>a can not return a row >999.	3900006585	43
	B1152A	00.03 hpterm display messages are over written by status block.	3900006593	43
	B1152A	00.03 when hpterm gets a soft reset, the cursor is left off	3900006601	43
	B1152A	00.03 Bitmap with-nodashed, then do invert all results in lines becoming dots	3900006619	44
	B1152A	00.03 Gwind daemon left running if given invalid display argument	3900006825	44
	B1152A	00.03 Gwind doesn't handle negative geometry positioning, off by border width	3900006833	44
	B1152A	00.03 Gwindstop does not accept multiple directories	3900006841	44
	B1152A	00.03 Gwindstop doesn't return nonzero status when destroying nonexistent wind	3900006858	45
	B1152A	00.03 rgb returns status 0 for illegal color names/values	3900006866	45
	B1152A	00.03 Can't resize info when resizing windows with large borders	3900006874	45

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*****non*****	B1152A	00.03 Using xclock with option, chime only beeps once on the hour, not twice.	3900006882	45
	B1152A	00.03 xfc doesn't complain if both -l and -m options at same time	3900006890	45
	B1152A	00.03 All special properties have parsing problems in xfc.	3900006908	46
	B1152A	00.03 Man page example for xinit is wrong: ...-l... is wrong; (should be --:l)	3900006916	46
	B1152A	00.03 Default screen is used if an invalid screen number is given.	3900006924	46
	B1152A	00.03 Wrong message given when using xmodmap -n -e.	3900006932	46
	B1152A	00.03 A bad keySYM when using xmodmap does not terminate with error.	3900006940	47
	B1152A	00.03 When using Xmodmap, X protocol error can result vs. correct error messag	3900006957	47
	B1152A	00.03 Xl1start man page doesn't mention \$PATH is changed.	3900006965	47
	B1152A	00.03 Xwcreate returns status of 0 even if there was an error.	3900006973	47
	B1152A	00.03 -inverse option in xwd doesn't work on a monochrome display.	3900006981	47
	B1152A	00.03 In using xwcreate, color parameters expect pixel indices not rgb values	3900006999	48
	B1152A	00.03 TextEdit: Changing fonts using setvalues dumps core on input or bspace.	3900007005	48
	B1152A	00.03 TurboSRX server forgets current cursor if moved out of then into scree	3900007013	48
	B1152A	00.03 Blow through on screen when non font file name filename.scf.	3900007021	49
	B1152A	00.03 XFillArc() does not handle negative angles properly.	3900007039	49
	B1152A	00.03 Problems with stippling a bitmap	3900007047	50
	B1152A	00.03 Problem w/ copy plane from window to bitmap.	3900007054	50
	B1152A	00.03 Problem with copy-area to window with neg. co-ords.	3900007062	51
	B1152A	00.03 XDrawLines chokes on duplicates in array of points.	3900007070	51
	B1152A	00.03 Xwininfo returns status of 1, even if there was no error.	3900007088	52
	B1152A	00.03 Inconsistent handling of vertices in 0-width polyline	3900007104	52
	B1152A	00.03 SetValues of TitleBar's internal StaticText widget causes memory fault.	3900007112	52
	B1152A	00.03 Xserver can crash on XCopyPlane when dealing with depth 1.	3900007120	52
	B1152A	00.03 XPutImage on fireye sometimes munges offscreen memory.	3900007138	53
	B1152A	00.03 Display enhancements in hpterm not always displayed the same as terminal	3900007146	53
	B1152A	00.03 Finnish keyboard doesn't work with 'Product=Line' software	3900007153	54
	B1152A	00.03 Reading multi-line translations in resource files returns wrong \$ length	3900007161	54
	B1152A	00.03 XPutImage does not work correctly with shorts	3900007179	54
	B1152A	00.03 uwm does not take large border widths into account when placing windows	3900007187	54
	B1152A	00.03 X server doesn't work on kernel without IFE configured in. (S800)	3900007195	55
	B1152A	00.03 Copy plane sometimes doesn't work	3900007773	55
	B1152A	00.03 Problems w/ copy-plane from window to bitmap	3900007781	55
	B1152A	00.03 TextEdit does not size window correctly in 6.2 - fixed in 6.5	5000474411	56
	B1152A	00.03 TextEdit forgets Leave callback if highlight_traversal is set	3900006072	30

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*****non*****	B1152B	00.03 Duplicate typedefs for short INT8 cause compiler to abort	1650099572	57
	B1152B	00.03 hpwm title remains pushed in shen concurrent interact. place is done	3900007211	57
	B1152B	00.03 Hpwm.man says f.refresh_will actis like f.refresh in root context.	3900007229	57
	B1152B	00.03 Core Dump when sizing windows in a VPANE	3900007237	57
	B1152B	00.03 Textedit widget created with empty file, change to full file, hang	3900007245	58
	B1152B	00.03 icon over save button in save view in hpwm. Both get select signal.	3900007252	58
	B1152B	00.03 hpwm interactive placement when mouse is busy - window (0,0) can't move	3900007260	59
	B1152B	00.03 "<BtnUp> title f.raise_lower" only does f.raise in hpwm.	3900007278	59
	B1152B	00.03 Unexpected window position with negative geometry co-ordinates.	3900007286	59
	B1152B	00.03 XtNtitlePosition defined differently for 2 different widgets	3900007294	59

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	B1152B	00.03 TextEditP.h: uses defines XtTextEditPrivate.h instead of XwTextEdit...	3900007310	60
	B1152B	00.03 BackgroundTile resources not properly propagated	3900007328	60
	B1152B	00.03 multiple traversal highlights can sometimes appear	3900007336	61
	B1152B	00.03 SWindow: horizontal scroll bar y resource always returns 0 on getvalues	3900007344	61
	B1152B	00.03 monochrome Z format image handled incorrectly in xpr and xwd2sb	3900007351	62
	B1152B	00.03 xwcreate indicates an invalid background pixel when using TSRX display	3900007369	62
	B1152B	00.03 In xpr -trailer string truncated by 1 char when -append -noff spec. after	3900007377	62
	B1152B	00.03 xwcreate does not give an error for exceeding window count.	3900007385	62
	B1152B	00.03 -depth arg <= 0 in xwcreate, s/b 'invalid window depth', not 'bad option	3900007393	63
	B1152B	00.03 In hpterm, an extra cursor appears after pressing [Next][Next]	3900007401	63
	B1152B	00.03 Programmatically turning key labels on/off repeatedly resizes hpterm wind	3900007419	63
	B1152B	00.03 hpterm will display wrong menu instead of user menu (sometimes)	3900007427	64
	B1152B	00.03 Mode menu check mark does not come on for reverse video option	3900007435	64
	B1152B	00.03 When clicking mouse inside, then outside hpterm, hpterm dies.	3900007443	64
	B1152B	00.03 TSRX colors allocated incorrectly in overlays if first in STACKED MODE.	3900007450	64
	B1152B	00.03 Running two servers at the same display won't work.	3900007458	65
	B1152B	00.03 Using non-HP Xlib may cause client termination for LARGE requests.	3900007476	65
	B1152B	00.03 Restarting a second s300 server after changing Xscreens file may fail.	3900007484	66
	B1152B	00.03 grmd process size grows by 2K for each Starbase application	3900007492	66
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	B1152B	00.03 In LCC or Hexagon display copying window sometimes is not right	3900007518	67
	B1152B	00.03 XGetImage behaves wrong for backing store windows of depth 2,3,4,6.	3900007526	68
	B1152B	00.03 HP98556 and STACKED SCREENS Mode: colormap hosed when server resets	3900007534	68
	B1152B	00.03 Server doesn't always handle "Unsorted" XSetClipRectangles correctly	3900007542	69
	B1152B	00.03 Backing store is not deleted for depth 24 DHA windows	3900007559	69
	B1152B	00.03 Backing store may not be rendered to correctly on some displays (s300)	3900007567	70
	B1152B	00.03 redMask in the Visual structure zero in stacked mode on SRX/TSRX	3900007575	70
	B1152B	00.03 Colors stored incorrectly in upper bank on TSRX double buffer mode	3900007583	70
	B1152B	00.03 White RGB value incorrect on 98548 display	3900007591	71
	B1152B	00.03 On TSRX (hp98730/98731) some tiles are rendered incorrectly	3900007609	71
	B1152B	00.03 Tiles may be drawn incorrectly on SRX (HP 98720/98721) (s300)	3900007617	71
	B1152B	00.03 Remnants of SB cursors left when obscuring/unobscuring window	3900007625	71
	B1152B	00.03 SB cursors in reserved planes are not turned off by the screen saver.	3900007633	72
	B1152B	00.03 client clip ignored when rendering to obscured window with backing store	3900007641	72
	B1152B	00.03 If X server restarted, ScreenSaver time not initialized.	3900007658	73
	B1152B	00.03 Multiple keycodes with same keysym in USASCII keypad.	3900007666	73
	B1152B	00.03 X Server error message: "Illegal state: prev stat=2 keycode=0".	3900007674	74
	B1152B	00.03 Compiler error when referencing XHPSTACKED SCREENS_MODE constant	3900007682	75
	B1152B	00.03 Last client termination MAY cause the X Server to abort	3900007690	75
	B1152B	00.03 XOpenDisplay through local:0 disables access control of server	3900007708	75
	B1152B	00.03 Existing SB_DISPLAY_ADDR variable may interfere with X server (s300)	3900007716	76
	B1152B	00.03 Gwind can hang when large number of windows are created.	3900007724	76
	B1152B	00.03 Certain bitmap(s) does not tile correctly as a root background (s300)	3900007732	77
	B1152B	00.03 xset gives error if pixel value is used outside of range 1-255.	3900007740	77
	B1152B	00.03 xwd does not use the colors saved; it uses just the pixels	3900007757	77
	B1152B	00.03 HPwm leaves X server grabbed and forgets pending resize if menu pops up	3900007765	77
	B1152B	00.03 All special properties have parsing problems in xfc.	3900007849	78
	B1152B	00.03 Bitmap with-nodashed, then do invert all results in lines becoming dots	3900007872	78

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*****none*****	B1152B	00.03 Duplicate reference to _bcopy in libX11.a and libndbm.a	5000476838	78

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*****none*****	B1152C	02.00 On SRX and TSRX, XGetVisualInfo incorrectly reports bits_per_rgb as 4	39000008995	79
B1152C		02.00 xwcreate cannot create windows on multiple servers	3900009001	79
B1152C		02.00 mkfontdir doesn't unlink fonts.dir before creating new fonts.dir	3900009019	79
B1152C		02.00 cvtINI16ToInt in XGetMotionEvents causes cc to abort	3900009027	79
B1152C		02.00 XGetPixel returns invalid data for 98547S Topcat 300h.6 double buffer	3900009050	80
B1152C		02.00 XErrorDB does not include any error information for errors over #127	3900009068	80
B1152C		02.00 hpterm when maximized does not handle geometry changes when [Menu] on	3900009076	80
B1152C		02.00 old style (pre 7.0) grmd+ socket not removed by AGRM customize script	3900009084	80
B1152C		02.00 sys.Xdefaults lacking colon in line for "Hpterm*Font "	3900009092	81
B1152C		02.00 hpterm may leave highlighting on in erased regions	3900009100	81
B1152C		02.00 Xos.h needs to default to SYSV, not Berkeley stuff	3900009118	81
B1152C		02.00 TextEditp.h: extra characters after #endif	3900009126	81
B1152C		02.00 Changing XtNhighlightThickness on static raster causes X Protocol error	3900009159	82
B1152C		02.00 hpterm (block mode) loses character on read from cursor to end of line	3900009183	82
B1152C		02.00 hpterm (7.0) does not read correctly from specified column to end of lin	3900009191	82
B1152C		02.00 hpterm 7.0 does not display alternate character set with curses program	3900009217	82
B1152C		02.00 Memory leak when create/destroy PromptDialog widget; Motif 1.0	3900009225	82
B1152C		02.00 Problems reading with Esc-D in hpterm block mode	3900009233	82
B1152C		02.00 hpterm does not warn user that lines are being lost in TDP buffer	5000535153	82
B1152C		02.00 xterm with -title option does not work properly and not equiv to -T	5000552307	83
B1152C		02.00 xterm does correctly emulate the function keys of the VT100/102 term	5000554493	83
B1152C		02.00 xterm - selecting "Interrupt" from xterm menu can cause system problems	5000557215	83
B1152C		02.00 hpterm does not refresh keyboard mapping after receiving MappingNotify	5000557223	83
B1152C		02.00 Xlib-line width 0 and PlaneMask set to other than AllPlanes - no line	5000573956*	1

KPR #: 5000573956 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
Xlib-line width 0 and PlaneMask set to other than AllPlanes - no line

KPR #: 3900009134 Product: X DOCUMENTATION ONLY B1161A 00.00

One-line description:
Man pg XHPSetKeyboardMapping (3X): XComposeStatus should be pointer

Problem:
In the man page description of XHPSetKbdMapInit macro, the last parameter, status_in, out should be of type XComposeStatus * (a pointer). The macro passes this value as arguments to XHPNlioc1 which requires a pointer argument.

KPR #: 3900009142 Product: X DOCUMENTATION ONLY B1161A 00.00

One-line description:
man pg XHPNlioc1 (3x) arg parameter should be int for some commands

Problem:
The arg parameter for this routine is not always a char * . It varies from command to command. Please check with the documentation for communicating with the nlio process.

KPR #: 3900009167 Product: X DOCUMENTATION ONLY B1161A 00.00

One-line description:
Manual does not explain how to use -C option (console output)

Problem:
The -C option is in hpterm and xterm to allow programs that direct their output to "/dev/console" to have that output go to a terminal emulator window that has been designated to receive console output. Unfortunately, the documentation and man pages do not offer any hint on how to set this up.

KPR #: 3900009241 Product: X DOCUMENTATION ONLY B1161A 00.00

One-line description:
man pages for Xt calls do not correspond to actual call

Problem:
try: man -k XtAppCreateShell
and you get the keyword for the call.

Then try:

man -k XtAppCreateShell
and you get "no manual entry for XtAppCreateShell"

Cause:
MIT has truncated or abbreviated file names with no way to equate the actual manpage name to the file name. In this case XtAppCreateShell is actually in XtAppCsh and that's what you have to use with the "man" command. We ALWAYS have a file that is the same name as the manpage and it either provides the manpage online or tells you what to enter to get what you want. MIT manpages will have this problem and about all one can do is look at /usr/man/man3.2 and try to equate manpage to file.

KPR #: 5000258749 Product: X10 WINDOWS 82320A 01.00

One-line description:
X doesn't create "pty" entries for use on discless node

Problem:
Customer has X windows rev A.01.00 for the s300, p/n 82320A.

Customer has found that this revision does not support Discless nodes and is requesting that X windows be enhanced to support Discless nodes.

Fix information:
Fixed in version A.03.00

Signed off 03/31/89 in release A03.00

KPR #: 5000274225 Product: X10 WINDOWS 82320A 05.50

One-line description:
wxinstall, pre 6.2, will alter and remove related files in /usr/bin

Problem:
Problem: wxinstall and wxuninstall command remove /usr/bin/wmstart.
System Config: 9000/300 HP-UX (Rev. 5.5) X-Windows (Rev. A.01.00)
Kanji I/O subsystem (Rev. 5.2)

When the system configuration is like above, "wxinstall" command remove unexpected files such as /usr/bin/wmstart. "wxinstall" command replace /usr/bin/wmstart to emulate WINDOW/9000 on X-WINDOW, and "wxuninstall" command should recover /usr/bin/wmstart from backup of this file.

But when user has Kanji I/O subsystem also, this "wxuninstall" command doesn't recover /usr/bin/wmstart and seems to be removed.

KPR #: 5000300467 Product: X10 WINDOWS 82320A 06.00

One-line description:
XTERM does not generate SIGINT from the break key

KPR #: 5000416461 Product: X10 WINDOWS 82320A 03.02

One-line description:
Install errors on 6.2 and 6.5 when long filenames are enabled

KPR #: 5000427872 Product: X10 WINDOWS 82320A 06.20

One-line description:
XTERM hangs when cutting and pasting a large section of text

KPR #: 3900007799 Product: X11 800 ONLY 3.0/3.1 B1155A B3.00

One-line description:
TSRX combined mode rendering problems, images listed 1st in screens file

Problem:
Assume the following configuration:

TSRX display (HP 98730/98731)
3 plane overlay device = /dev/ocrt0
Image plane device = /dev/crt

The following X0screens entry will result in improper rendering in the overlay planes:

/dev/crt /dev/ocrt0

This is due to the display drivers inability to determine the overlay plane configuration from the image planes.

Symptoms include generally incorrect appearance for most clients running in the overlay planes.

Temporary solution:
Workaround:

List the overlay plane device first. For example, the following X0screens entry would correct the behavior:

/dev/ocrt0 /dev/crt

KPR #: 3900007807 Product: X11 800 ONLY 3.0/3.1 B1155A B3.00

One-line description:

With hpterm in pointer blank mode, the pointer blanks on shift & meta

Problem:

When run on the s800 with pointer blank mode on, hpterm will blank the pointer when noncharacter keys are pressed, such as return, shift, extend. This is due to a lack of "return(False);" at the end of the ProcessKeyInput function.

KPR #: 3900007815 Product: X11 800 ONLY 3.0/3.1 B1155A B3.00

One-line description:

The Fortran bindings don't return a function pointer correctly

Problem:

On the series 800, a function pointer is not returned properly by the Fortran bindings. The following program should print the address of the subroutine "fixit":

include 'Xf/sfalias.h'

program test

include 'Xf/Xflfb.h'

external fixit

KPR #: 3900007815 **CONTINUED**

integer*4 pfi,ppfi

```

ppfi = XfCreate(XFT_xrPFI)
if (.not. XfInsert(ppfi,1,fixit)) call error
if (.not. XfExtract(ppfi,0,ppfi)) call error
print *, pfi
if (.not. XfDestroy(ppfi)) call error
end

```

```

subroutine fixit
return
end

```

```

subroutine error
print *, 'Error'
return
end

```

Temporary solution:
Pass an index of 1 rather than 0 in the call to XfExtract.

KPR #: 3900007823 Product: X11 800 ONLY 3.0/3.1 B1155A B3.00

One-line description:
X Server defaults to using /dev/crt, should be /dev/crt0 on s800

Problem:
If no /usr/lib/X11/X0screens file exists, the X Server attempts to open the device /dev/crt. This file does not exist on S800 systems.

Cause:
Server has the wrong default file name.

Temporary solution:
Set up a correct /usr/lib/X11/X0screens file, containing:

/dev/crt0

KPR #: 3900007831 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
In hpterm, pastes of >-512 chars drop data (s800 only).

KPR #: 3900007856 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
All special properties have parsing problems in xfc.

Problem:
The validity of data specified for special properties is not checked by xfc.

Temporary solution:
Workaround:

- X11 800 ONLY 3.0/3.1 -

KPR #: 3900007856 **CONTINUED**

The user must ensure that special property data is correct.

KPR #: 3900007864 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
Bitmap with -nodashed, then do invert all results in lines becoming dots

Problem:
Using bitmap with -nodashed, then do invert all results in lines becoming dots.

If bitmap is started with the -nodashed option and the user then specified 'invert all', the solid lines become dots.

Temporary solution:
No workaround.

KPR #: 3900007880 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
hpwm title remains pushed in shen concurrent interact. place is done

Problem:
If the title is already pushed in when a concurrent interactive place is done, the title will not pop back. This is a cosmetic defect.

Temporary solution:
Workaround:
Repaint the screen.

KPR #: 3900007898 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
Hpwm.man says f.refresh_wil actis like f.refresh in root context.

Problem:
The man page incorrectly states that firefresh_win acts the same as firefresh in root context.

Temporary solution:
No workaround.

KPR #: 3900007914 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
Textedit widget created with empty file, change to full file, hang

Problem:
I have a widget based mail program. If I create a textedit widget that has a source type of XwdiskSrc and file that is empty and then I change the parameters in a callback to point to a non empty file my program hangs.

Temporary solution:

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KPR #: 3900007914 **CONTINUED**

Workaround:

By putting some text in the original file everything works O.K.

KPR #: 3900007922 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
icon over save button in save view in hpwm. Both get select signal.

Problem:
icon was over the save button on a fileview. I doubleclicked to deiconize. The icon deiconized but the button beneath was selected as well. Fortunately it is a nondamaging request. This is really a bug in hpwm. The bug is that after a double click to deiconize, the release event is making it through to the window underneath. Since the double click is "owned" by the window manager, it shouldn't allow it to be passed to an application (this requires some sort of grab, I think). Hpwm carries out the double-click action when it receives the second button down event. The second button-up event is not consumed by hpwm.

Temporary solution:
Change your selection for the button to be btnlDown rather than btnlUp.

KPR #: 3900007930 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
hpwm interactive placement when mouse is busy - window (0,0) can't move

Problem:
When hpwm has interactive placement on, if a window appears while the mouse button is down, hpwm puts the top left corner of the window at (0,0). Unfortunately, the title bar is hidden, so the gadget to move the window cannot be reached. I have to kill the window and start over.

Temporary solution:
No workaround.

KPR #: 3900007948 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
BtnlUp title f.raise_lower" only does f.raise in hpwm.

Problem:
The following bindings for f.raise_lower work:

```
<Key>Select    window/icon    f.raise_lower
<BtnlUp>       icon           f.raise_lower
Meta<BtnlUp>   icon           f.raise_lower
Menu DefaultsMenu
{
  "Raise/Lower"    f.raise_lower
}
```

The following only execute f.raise:

```
<BtnlUp>       title    f.raise_lower
```

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KPR #: 3900007948 **CONTINUED**

```
Meta<BtnlUp>   title    f.raise_lower
Meta<BtnlUp>   window    f.raise_lower
```

Temporary solution:
No workaround.

KPR #: 3900007955 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
Unexpected window position with negative geometry co-ordinates.

Problem:
There is a general problem with Xlib when negative geometry coordinates are used. This problem can be exhibited when using hpwm or some of the clients.

Temporary solution:
No workaround.

KPR #: 3900007963 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
XtntitlePosition defined differently for 2 different widgets

Problem:
The resource XtntitlePosition is defined differently for 2 different widgets:

```
Cascade - type int
          uses XwTOP, XwBOTTOM or XwBOTH
TitleBar -
          type int
          seems to use numbers different from the enum
          values above
```

Temporary solution:
No workaround.

KPR #: 3900007971 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
type converters in libXw don't generate warning on bad conversions

Problem:
In tracking another problem, I discovered that some of my resources were illegal in my app-defaults. The converter functions are supposed to generate warnings when illegal values are specified, but did not. In particular, I had specified something like:
*StaticText.Gravity: False

instead of giving it a real value. It failed to tell me that False was not a legal value for gravity.

Temporary solution:

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KPR #: 3900007971 **CONTINUED**

No workaround.

KPR #: 3900007989 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
 TextEditP.h: uses defines _XtTextEditPrivate_h instead of _XtTextEdit...

Problem:
 To prevent multiple inclusion, ifdefs and defines were added to the header files. TextEditP.h uses ifdef _XtTextEditPrivate_h and define _Xt... to prevent multiple inclusion instead of using the proper _Xw prefix. This will only cause problems if an application defines _XtTextEditPrivate_h somewhere (which is very unlikely). But for consistency sake it should use the _Xw prefix.

Temporary solution:
 No workaround.

KPR #: 3900007997 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
 BackgroundTile resources not properly propagated

Problem:
 If the resource file contains:
 *BackgroundTile: 50 foreground
 *StaticText.backgroundTile: background

the list widget comes up with very strang defaults. The static text entries are correct (solid) but the row column manager underneath is tiled. The bulletin board manager is solid again (so the list manager window has an apparent random pattern of solid and tile). The correct values would have been for the bulletin board to use the same background as the row column, but what I really wanted to set was everything solid but the scrollbar.

To fix the problem, I added:

*List*BackgroundTile: background
 *List*Scrollbar*BackgroundTile: 50_foreground

but the problem is the second resource is ignored. It should be possible to set subresources for the scrollbar color and tile. Either that, or the resources need to be made available at the manager level with something like vsbBackgroundTile, etc.

This is actually a problem with ScrolledWindow as well.

Temporary solution:
 No workaround.

KPR #: 3900008003 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
 multiple traversal highlights can sometimes appear

Problem:
 I have some code which pops up a transient shell and calls XtSetKeyboardFocus(). It then pops down the transient shell and later pops it up, again setting the focus. If the user changes the kbd focus before popping down the shell (dialog box), then when the box reappears, both highlights are sometimes visible. I think when no intervening management requests come in, but the focus is correctly placed in the one on which XtSetKeyboardFocus() was last called.

Temporary solution:
 Workaround:

I can't work around this by calling XtSetKeyboardFocus(popup_shell, None) when I pop down the box.

KPR #: 3900008011 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
 SWindow: horizontal scroll bar Y resource always returns 0 on getvalues

Problem:
 None

Temporary solution:
 None

KPR #: 3900008029 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
 monochrome Z format image handled incorrectly in 'xpr' and 'xwd2sb'.

Problem:
 Xpr & xwd2sb incorrectly handles monochrome images generated in ZPixmap format when the image is packed one bit per pixel. This due to a defect in the "Z_image_pixel" function contained in the x2jet.c file.

Temporary solution:
 Workaround:

Use the '-xy' command line option when generating the image via "xwd". This forces the image to be dumped in XYPixmap format which is handled correctly by xpr.

KPR #: 3900008037 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
 xwcreate indicates an invalid background pixel when using TSRX display.

Problem:
 xwcreate displays a wrong error message and exits if pixel number is specified for the background. This happened when using a TurboSRX

KPR #: 3900008159 **CONTINUED**

virtual memory. When a window is registered to be a DHA (Direct Hardware Access) window, its backing store, if any, is moved to "Shared Memory". Shared memory is a piece of memory that can be accessed by drawing routines of the Xserver as well as by the drawing routines in Starbase library. However the shared memory is a limited resource and sometimes may be unavailable. This may happen if there are several windows or one large window has been declared to be DHA window. If the shared memory is not available, the Xserver should backoff and refuse to provide backing store support for the DHA window. Because of a bug, the Xserver sometimes fail to recognize this situation and tries to render to nonexistent backing store in the shared memory. Consequently the server crashes. This bug is being fixed in the next release. The problem is particularly visible for windows of depth 24, because the large quantities of memory are required to support backing store operation of these windows and consequently the shared memory reservoir runs out quicker.

Temporary solution:

Workaround:

The problem may be avoided (minimized) by doing the following:

- 1) do not have many DHA-windows with backing store.
- 2) do not declaring large full screen windows with backing store to be DHA-windows.
- 3) increase the size of allocated shared memory by instructing the Graphics Resource Manager (GRM). See the relevant GRM-document for instructions on how to do this.

KPR #: 3900008177 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:

On LCC or Hexagon display copying window sometimes is not right

Problem:

If a window has backing store and it is partly obscured, then when the window is unobscured its contents are to be copied from the backing store to the screen. In the LCC or Hexagon displays sometimes it does not work properly.

Cause:

The backing store of a window resides in either the frame buffer or in virtual memory. When the backing store contents are to be copied to the screen the Xserver employs one of two different routines to copy the backing store to the screen. One of these routines is specifically used to copy from a backing store in frame buffer to the screen. Another routine is used to specifically copy backing store in virtual memory to screen. The former routine as implemented for the above displays has a bug, such that sometimes it does not copy the contents of the backing store from the frame buffer if the area to be copied is partially visible and partially obscured. On most displays, the problem manifests only once when the Xserver is initialized. On the LCC and Hexagon displays, this problem may persist.

Temporary solution:

Workaround:

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KPR #: 3900008177 **CONTINUED**

Large windows will have their backing store in virtual memory. This problem will not be visible then.

KPR #: 3900008185 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:

HP98556 and STACKED SCREENS Mode: colormap hosed when server resets

Problem:

Running a server in STACKED-SCREENS MODE with a HP98556 integer accelerator present causes problems. When the last client dies, the server resets, as expected. However, it also trashes the colormap in such a way that most everything goes black (in a stippled fashion - the mesh of the root window). Using the mouse to toggle between the two screens causes the colormaps to reset correctly.

Cause:

The server will attempt to use the HP98556 if it is running when the server is started. If it is not running, but can be successfully started, the server will do so. There are some firmware difficulties in using the HP98556 and timing of toggling between the image and overlay planes in STACKED-SCREENS mode.

Temporary solution:

Workaround:

None: Using a HP98556 in STACKED-SCREENS mode is not supported. One way to turn off the HP98556 is as follows:

- 1) Shut down the X system
- 2) rename the HP98556 microcode file
- 3) issue a "gopen (... RESET DEVICE)". This will reset the HP98556 and cause it to reload its microcode. Since the file has been renamed, the reload will fail and the HP98556 will shut down.

To start the HP98556 again, rename the microcode file back to normal and issue the gopen again.

Note: If the HP98556 is not running, but the microcode file is present, the server will start the HP98556.

KPR #: 3900008193 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:

Server doesn't always handle "Unsorted" XSetClipRectangles correctly

Problem:

The X lib procedure "XSetClipRectangles" allows the client to specify a set of rectangles in which to restrict rendering. The client must specify the ordering of the rectangles (Unsorted, YSorted, YXSorted, YXBanded). Rectangles that are "Unsorted" are not always handled correctly.

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KPR #: 3900008193 **CONTINUED**

Cause:
The server always works with rectangles in YXBanded format. Rectangle lists specified in another format are converted to YXBanded. The algorithm to convert Unsorted rectangles to YXBanded is incorrect.

Temporary solution:
Workaround:

Order the rectangles into one of YSorted, YXSorted, or YXBanded.

KPR #: 3900008201 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
backing store is not deleted for depth 24 DHA windows

Problem:
If a depth 24 window is registered for Direct Hardware Access, any backing store present is not deleted. Also, a request to create backing store for such a window is not denied. If the window is obscured and then exposed, the contents of the backing store will be drawn. This is only a problem if the DHA client can not render into the backing store.

Cause:
The X server can render into depth 24 backing store. DHA Starbase clients can not. When a depth 24 window with backing store becomes registered for DHA, the server should delete the backing store. Similarly, if a depth 24 DHA client requests backing store, it should be denied.

Temporary solution:
Workaround:

Before registering the window for DHA, explicitly delete any backing store via the XSetWindowAttributes library procedure.

KPR #: 3900008219 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
redMask in the Visual structure zero in stacked mode on SRX/TSRX

Problem:
On the SRX (HP 98720/98721) and TSRX (HP98730/98731) displays, if the first screen of a Stacked Screen mode configuration has a visual class of DirectColor (i.e., its depth is either 12 bits double buffered, or 24 bits), then the ConnectionInfo that is transmitted to the client at XOpenDisplay time will have a bad value for the redMask of the DirectColor visual. The net result is that it is impossible to tell what bits of the Pixel actually define the red component.

Temporary solution:
Workaround:

Reverse the order of the screens in the X?screens file.

KPR #: 3900008227 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
Colors stored incorrectly in upper bank on TSRX double buffer mode

Problem:
On the Turbo SRX display system (HP 98730/98731) if the X server is started in 12/12 double buffer mode (depth 24) then colors that are stored into the high bank will have the value intended for the green bank stored into the red bank, altering the red bank and leaving the green bank untouched. This problem should be unnoticeable in most cases. However, if the situation arises where a Starbase application is designed to utilize the X default colormap of the X server, then the display will flash with incorrect colors at each call to dbuffer_switch().

Temporary solution:
No workaround.

KPR #: 3900008235 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
White RGB value incorrect on 98548 display

Problem:
The value stored in the colormap for the color white for the 98548 display system is Red = 0xffff, Green = 0xffff, Blue = 0xffff. It should be 0xff00 for all three components to correctly match the rgb color database.

This results in being unable to allocate the color white. Thus a command such as the following will fail:
xsetroot -solid white

Temporary solution:
No workaround.

KPR #: 3900008243 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
On TSRX (hp98730/98731) some tiles are rendered incorrectly

Problem:
On the Turbo SRX display system (HP98730/98731) tiles (patterns used for certain fill operation) whose width is between 16 and 23 pixels wide will not be rendered correctly. Visually, it looks as though only the left-hand portion of the tile is correct, with the right-hand portion looking like random data.

Temporary solution:
No workaround.

KPR #: 3900008342 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
Gwind can hang when large number of windows are created.

Problem:
This defect can cause the gwind daemon to hang. gwind hangs when a about 50 graphics windows have been created. This is an unusually high number for a user, but not out of the question. This is a low frequency defect, with serious consequences.

We have placed a warning in our update info file stating: Using more than 24 graphics windows at the same time can cause the gwind program to hang. Killing the gwind process is the best way to restore the ability to create graphics windows for starbase applications.

Temporary solution:
Workaround:

The workaround is to kill the gwind process. This destroys the graphics windows and allows the user to start creating graphics windows again.

KPR #: 3900008359 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
xset gives error if pixel value is used outside of range 1-255.

Problem:
On direct color systems like the TurboSRX, if a large pixel value is used an error condition is generated. The expected behavior is that this operation should work.

Temporary solution:
No workaround.

KPR #: 3900008367 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
xwud does not use the colors saved; it uses just the pixels

Problem:
Xwd saves the window contents along with the colormap; however, when xwud displays the saved contents, it ignores the colormap and instead uses the pixels.

Temporary solution:
No workaround.

KPR #: 3900008375 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
HPwm leaves X server grabbed and forgets pending resize if menu pops up

Problem:
HPwm forgets about a pending window resize operation and leaves the X server grabbed if a button press causes a menu to pop up during the resize. The following line of my button bindings causes a menu to pop

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KPR #: 3900008375 **CONTINUED**

up for button 3 presses in the window frame area. If I start a resize with a menu then press button 3 while over a frame area the pop up menu is displayed. When button 3 is released the menu is removed and the resize is no longer occurring. The server is still grabbed, preventing clients from running.

Temporary solution:
The window manager will ungrab the server if another resize is done on any window.

KPR #: 3900008383 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
XtNtitlePosition defined differently for 2 different widgets

Problem:
The resource XtNtitlePosition is defined differently for 2 different widgets:

Cascade - type int
uses XwTOP, XwBOTTOM or XwBOTH

TitleBar -
type int
seems to use numbers different from the enum values above

Temporary solution:
No workaround.

KPR #: 3900008391 Product: X11 800 ONLY 3.0/3.1 B1155A 00.03

One-line description:
Remnants of SB cursors left when obscuring/unobscuring window

Problem:
On the Turbo-SRX, when an accelerated window with a Starbase cursor is being or will be obscured by another window (accelerated or not) that has a Starbase cursor in it, the cursor is not put down properly. This will happen even if the Starbase program is not accessing the device. The result is that pieces of Starbase cursors will be left on the screen.

Temporary solution:
No workaround.

KPR #: 3900009035 Product: X11 800 ONLY 3.0/3.1 B1155A B3.00

One-line description:
loader fails on s800 due to duplicate ul1toR8 routines

Problem:
There is a routine called "ul1toR8" which is duplicated on both the libX.a and libXhp11.a libraries. It is used to translate ISO Latin 1 characters to HP Roman8 characters, it is in both libraries

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since an application developer might use HP widgets without HP extensions, or vice versa, and need the routine.

The problem occurs when a program uses both HP widgets and HP extensions, and is compiled on a series 800. If you do this on a series 300, the compiler issues a warning, "duplicate entry points", then resolves the ulitor8 external reference against whichever library (libxhpl.a or libxw.a) is specified first and produces a valid executable binary. On the series 800, the compiler aborts after issuing the warning.

Temporary solution:

The work-around is as follows:

- 1) Compile your program with -c to produce relocatable object files (suppressing the link edit phase of the compile).
e.g. "cc -c foo.c" produces "foo.o".
- 2) Invoke the loader explicitly to link in the first library, but still produce a relocatable object file as a result (no undefined symbols will be reported).
e.g. "ld -r -lXhpl1 foo.o" produces a new "foo.o" with the "ulitor8" external reference resolved.
Routine by marking it as "local".
e.g. "ld -r -h ulitor8 foo.o" produces a new "foo.o" with the "ulitor8" external reference hidden for future links
- 3) Invoke the loader explicitly one last time to resolve the rest of the unresolved externals and produce an executable binary.
e.g. "ld -o foo foo.o -lXw -lX11" produces the executable binary "foo" with the "ulitor8" routine referenced only once.

KPR #: 3900006072 Product: X11 WINDOWS 6.2/3.0 B1152A

00.00

One-line description:
TextEdit forgets Leave callback if highlight_traversal is set

Problem:
If the traversal type resource for a TextEdit widget is set to highlight_traversal, then when the cursor leaves the instance, the widget does not invoke its Leave callback; it assumes that since traversal is on, leaving the widget is meaningless - when we actually get a focus out event (because the cursor left the topmost widget) we will invoke our Leave callbacks.

Temporary solution:
WORKAROUND: NONE

KPR #: 3900006122 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:
TextEdit Widget leaves highlight droppings

Problem:
When typing into a StaticText 3D widget with traversal on and you reach the righthand border, the old traversal highlight is not erased when new one is drawn as the widget grows.

Temporary solution:
No workaround.

KPR #: 3900006130 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:
Form doesn't size itself correctly for certain sets of constraints.

Problem:
A problem occurs when there is a constraint set whose widget on the end is shorter than an intermediate widget.

Temporary solution:
Workaround:

This can generally be gotten around by referencing the constraints in a different manner to ensure that the end child in the constraint set is the longest.

KPR #: 3900006148 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:
Toolkit generates warnings if widgets put in empty slots of listwidget.

Problem:
If a list widget is created with children explicitly put in row, columns, then destroy those children, then create new children with the same explicit row, columns, the toolkit generates warnings, saying user is putting widgets in places already taken/occupied.

Temporary solution:

KPR #: 3900006148 **CONTINUED**

No workarounds.

KPR #: 3900006155 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

Window doesn't propagate all resources to its children.

Problem:

If a scrolled window is created, and a background pixel is specified within the arglist, the scrollbar will inherit this value, but the bulletin board will not. If one child inherits its, all of them should.

Temporary solution:

Workaround:

From defaults file: (include following two lines)
 *Scrolled Window. Bulletin Board
 background: [value]

KPR #: 3900006163 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

Select up key can be lost causing incorrect widget state.

Problem:

This occurs when the select key is pressed and the cursor is moved out of the widget hierarchy, and the select key is released. The select up will be lost.

Temporary solution:

No workaround.

KPR #: 3900006171 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

TextEdit does not handle returns followed by backspaces correctly.

Problem:

While editing a field, any field within a textEdit widget, hit return then try to backspace up past the return. It doesn't allow it.

Temporary solution:

Workaround:

Use [Ctrl][P] to move to previous line.

KPR #: 3900006189 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

Shell doesn't account for border width of its child.

Problem:

Create a wide-bordered child of a shell. The shell ignores the borders on the top and left hand sides.

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KPR #: 3900006189 **CONTINUED**

Temporary solution:
Workaround:

Put the wide-bordered child inside a frame.

KPR #: 3900006197 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

The 2 byte string "\n" is treated as a newline like the 1 byte '\n'.

Problem:

When loading a string into the StaticText widget (or the list widget or anything else that uses static text) loading a string that includes the two byte sequence '\n' causes the one byte '\n' (newline) to be put in the widget. The man page documents that this will be the case when the string comes from the .Xdefaults, but not when set programmatically.

Temporary solution:

No workaround.

KPR #: 3900006205 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

StaticRaster will choose it's size wrong.

Problem:

If the image is sent to the StaticRaster via SetValues, and if shadow is OFF, and if there is a non-zero highlight thickness, the StaticRaster widget chooses its size two highlight thicknesses too small.

Temporary solution:

No workaround.

KPR #: 3900006213 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

Certain increments of highlight thickness can be lost.

Problem:

Primitive and Manager lose highlight thickness increments of 2 greater than the current thickness when shadow is on. They also lose increments of 2 less than the current if both the thickness is decreased and the shadow is turned off.

Temporary solution:

Workaround:

Don't change highlight thickness by increments of 2.

KPR #: 3900006221 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

VPane Widget setting invalid padding and border_frame causes Xtoolkit Error.

Problem:

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KPR #: 3900006221 **CONTINUED**

Setting large negative values for padding and/or frame causes Xtoolkit error and aborts program.

Temporary solution:
No workaround.

KPR #: 3900006239 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

Shell: a realized shell doesn't resize to the size of its new children

Problem:

When the shell is realized and a child is created to go in the shell, the shell doesn't resize to the size of it's child when a child is created. It also won't change during SetValues of the child if the height or width doesn't change if the shell is previously realized. (i.e. if the width changes the changeMask is only set to change the width, thus the shell resizes to the width and the height doesn't change. This results in a funky looking display) If the child needs to be larger than the shell at creation time, the child is clipped. (e.g. a button will not display all of it's label if the label extend beyond the width set for the shell.) Note: All these problems occur when the shell is previously realized and a new child is being created with the realize shell as the parent.

Temporary solution:
Workaround:

Make sure shell isn't realized when you insert the child.

KPR #: 3900006247 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

SWin: produces a valuator warning on some resizing.

Problem:

When resizing is done and the scrollbars are unnecessary, the scrolled window sometimes (not consistently) produces the following X-Toolkit warning:

X Toolkit warning: Valuator: the origin is less than the valuator min or greater than the valuator max minus the valuator extent.

Temporary solution:
No workaround.

KPR #: 3900006254 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

XtNinsertPosition is defined for both TextEdit and Manager classes.

Problem:

When creating a text edit widget within a row column manager, if the application specifies the XtNinsertPosition resource, with the intention of setting the text insertion position within the text edit widget, it

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KPR #: 3900006254 **CONTINUED**

will also cause the Manager class to use this value as an indication of where within the parent's child list this child should be placed.

Thus, if this resource is set to 0, the cursor is placed at position 0, and the text edit widget is placed as the first child within its parent. Workaround:

If you want to control the positioning of the widget within its parent's list of children, the use XtNinsertPosition resource at create time. If you want to control the TextEdit cursor position, then create the widget without this resource, the use SetValue to edit the XtNinsertPosition resource.

Temporary solution:
Workaround:

If you want to control the positioning of the widget within its parent's list of children, the use XtNinsertPosition resource at create time. If you want to control the TextEdit cursor position, then create the widget without this resource, the use SetValue to edit the XtNinsertPosition resource.

KPR #: 3900006262 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

TextEdit: Editing text in middle of buffer messes up selection.

Problem:

When editing in the middle of the text buffer, the text at the end of that line and at the end of all subsequent lines is not selectable.

Temporary solution:
No workaround.

KPR #: 3900006270 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

TextEdit: Doesn't reset margins when highlight_thickness changes.

Problem:

TextEdit: Doesn't reset margins when highlight_thickness changes.

Temporary solution:
Workaround:

Reset Left and Right margins to Highlight_thickness + 3.
Reset Top and Bottom to Highlight_thickness.

KPR #: 3900006288 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

TextEdit: clears an area of shadow on inputting characters.

Problem:

If the size of the TextEdit widget isn't large enough to accommodate the

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KPR #: 3900006569 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
In hpterm, cursor is left in incorrect position after processing <esc>d`

Problem:
After processing an enter (via <esc>d), hpterm should leave the cursor in column 0. It leaves it in the same col as when the processing began.

Temporary solution:
No workaround.

KPR #: 3900006577 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
In hpterm, pastes of >-512 chars drop data (s800 only).

KPR #: 3900006585 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
In hpterm, <esc>a can not return a row >999.

Problem:
In hpterm, <esc>a can not return a row 999.

Temporary solution:
Workaround:

Use rows of less than 999.

KPR #: 3900006593 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
hpterm display messages are over written by status block.

Problem:
When a status message is displayed in the softkey window (via <esc>&j<len><msg>, the center status block will overwrite it if insert char mode is entered (or anything else that modifies it).

Temporary solution:
No workaround.

KPR #: 3900006601 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
When hpterm gets a soft reset, the cursor is left off

Problem:
When hpterm gets a soft reset, the cursor is left off.

Temporary solution:
Workaround:

Hit a character and cursor returns.

KPR #: 3900006619 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
Bitmap with-nodashed, then do invert all results in lines becoming dots

Problem:
Using bitmap with -nodashed, then do invert all results in lines becoming dots.

If bitmap is started with the -nodashed option and the user then specified 'invert all', the solid lines become dots.

Temporary solution:
No workaround.

KPR #: 3900006825 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
Gwind daemon left running if given invalid display argument

Problem:
If gwind is given an invalid display argument, the resulting error condition will leave the gwind daemon running, instead of terminating.

Temporary solution:
Workaround:

Kill the gwind process if this error occurs.

KPR #: 3900006833 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
Gwind doesn't handle negative geometry positioning, off by border width

Problem:
Gwind doesn't handle negative geometry positioning, off by border width.

Temporary solution:
Workaround:
Place windows with positive coordinates.

KPR #: 3900006841 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
Gwindstop does not accept multiple directories

Problem:
The documentation indicates that gwind can handle multiple directories, however, only one directory is processed.

Temporary solution:
Workaround:

Specify multiple 'gwind dir' for each desired directory.

KPR #: 3900006852 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:

Gwindstop doesn't return nonzero status when destroying nonexistent wind

Problem:

Gwindstop is not indicating that a window was not successfully destroyed by returning the correct exit status. Instead the status is zero, indicating the window destroy was successful when the window was nonexistent

Temporary solution:

No workaround.

KPR #: 3900006866 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:

rgb returns status 0 for illegal color names/values

Problem:

rgb is not indicating an error status if an illegal color name or value is used.

Temporary solution:

No workaround.

KPR #: 3900006874 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:

Can't resize info when resizing windows with large borders

Problem:

For some large borders on windows that are being resized, the pop-up resize info window sometimes does not appear.

Temporary solution:

Nc workaround.

KPR #: 3900006882 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:

Using xclock with option, chime only beeps once on the hour, not twice.

Problem:

Using xclock with option, chime only beeps once on the hour, not twice.

Temporary solution:

No workaround.

KPR #: 3900006890 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:

xvc doesn't complain if both -l and -m options at same time

Problem:

xvc doesn't complain if both -l and -m options at same time.

KPR #: 3900006890 **CONTINUED**

Temporary solution:

Workaround:

User should only specify one of the options: -m or -l.

KPR #: 3900006908 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:

All special properties have parsing problems in xfc.

Problem:

The validity of data specified for special properties is not checked by xfc.

Temporary solution:

Workaround:

The user must ensure that special property data is correct.

KPR #: 3900006916 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:

Man page example for xinit is wrong: ... --l... is wrong; (should be --:l)

Problem:

man page example for xinit is wrong: ... -- 1 ... is incorrect; (should be -- :l)

Temporary solution:

No workaround.

KPR #: 3900006924 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:

Default screen is used if an invalid screen number is given

Problem:

If invalid screen number is given in [hostname:display.screen] default screen is used instead of returning error.

Temporary solution:

No workaround.

KPR #: 3900006932 Product: X11 WINDOWS 6.2/3.0 B1152A

00.03

One-line description:

Wrong message given when using xmodmap -n -e.

Problem:

If using xmodmap with options -n & -e, the message appears telling the user 'add @-9' instead of the correct message 'add shift - 9'.

Temporary solution:

No workaround.

KPR #: 3900007187 **CONTINUED**

Don't use very large borders when creating windows.

KPR #: 3900007195 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

X server doesn't work on kernel without ITE configured in. (S800)

Problem:

If I generate a kernel without the ITE configured into it, I can't launch the X-server to a graphics device. It comes back and says that the "Moby" server is missing, and that I should build it in.

This is a problem for people who want to use their graphics devices only as a X workstations. The ITE takes a lot of space in kernel, and should not be required.

Temporary solution:

No workaround.

KPR #: 3900007773 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

Copy plane sometimes doesn't work

Problem:

First create bitmap and a window, mapping the window. Then blit the bitmap onto itself, using GXinvert. Then copy the entire bitmap to the window, using copy-plane w/ operation == GXxor. Then copy pieces of the bitmap to the window, again using GXxor. The pieces cover the entire bitmap, and so when the copies are done the window should be blank.

Temporary solution:

No workaround.

KPR #: 3900007781 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

Problems w/ copy-plane from window to bitmap

Problem:

There is a bug in copy plane when the source is a window, the destination is a bitmap, and destination region is something other than 0,0. First, a window is created, mapped, and an "X" is drawn into it. The program then waits for a mouse event. Then a portion of the window is copied from 0,0 into a bitmap, and the contents of the bitmap is immediately redisplayed to the window. The program will then wait for another mouse event. The copying is then repeated, but this time the window is copied from 100, 100 to the bitmap. The program then waits for a final mouse event.

The correct results of this program is that the window should not appear to change, since portions of the window are being copied to a bitmap and then immediately copied back. What happens is that the first copy / copy back works correctly, but the second one does not, resulting in a

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KPR #: 3900007781 **CONTINUED**

hole in the "X".

Temporary solution:

No workaround.

KPR #: 5000474411 Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:

xwcreate does not size window correctly in 6.2 - fixed in 6.5

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KPR #: 1650099572 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:
Duplicate typedefs for short INTs cause compiler to abort

Problem:
Apparently, the C compiler is calling a warning an error and then aborting. The problem is caused by a duplicate definition in include files for short, long and char. The compiler should issue a warning "duplicate typedefs" and keep on going. This defect really should be lodged with the division responsible for the C compiler

KPR #: 3900007211 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:
hpwm title remains pushed in shen concurrent interact. place is done

Problem:
If the title is already pushed in when a concurrent interactive place is done, the title will not pop back. This is a cosmetic defect.

Temporary solution:
Workaround:

Repaint the screen.

KPR #: 3900007229 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:
Hpwm.man says f.refresh_wil actis like f.refresh in root context.

Problem:
The man page incorrectly states that firefresh_win acts the same as firefresh in root context.

Temporary solution:
No workaround.

KPR #: 3900007237 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:
Core Dump when sizing windows in a VPANE

Problem:
In the latest version of the Excalibur BUILD tool, I have been playing with the VPANE widget to eliminate some of the sashes (make only certain parts of the tool resizable). My widget hierarchy is as follows:

```
PANEL
VPANE
MENU-BAR
FORM
  (min=55, max=55)
LIST
  <lots of stuff>
  (min=25)
FORM
  <list mgr stuff>
  (min=25, max=25)
  <lots of stuff>
```

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KPR #: 3900007237 **CONTINUED**

FORM ("File View")
<lots of stuff>
<horizontal scroll bar>

What I end with is a screen with 1 sash mark (what I want), it is attached to the bottom of the LIST widget. When I grab the sash and move it all the way down to the bottom of the screen, I die with a floating point exception.

Temporary solution:
Workaround:

If I make the MIN for the bottom form bigger (e.g. 50 instead of 25), things work fine.

KPR #: 3900007245 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:
Textedit widget created with empty file, change to full file, hang

Problem:

I have a widget based mail program. If I create a textedit widget that has a source type of Xwdisksrc and file that is empty and then I change the parameters in a callback to point to a non empty file my program hangs.

Temporary solution:
Workaround:

By putting some text in the original file everything works O.K

KPR #: 3900007252 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:
Icon over save button in save view in hpwm. Both get select signal.

Problem:

Icon was over the save button on a fileview. I doubleclicked to deiconize. The icon deiconized but the button beneath was selected as well. Fortunately it is a non-damaging request. This is really a bug in hpwm. The bug is that after a double click to deiconize, the release event is making it through to the window underneath. Since the double click is "owned" by the window manager, it shouldn't allow it to be passed to an application (this requires some sort of grab, I think). Hpwm carries out the double-click action when it receives the second button down event. The second button-up event is not consumed by hpwm.

Temporary solution:
Change your selection for the button to be btnlDown rather than btnlUp.

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KPR #: 3900007500 **CONTINUED**

The backing store of a window is kept in either frame-buffer or in virtual memory. When a window is registered to be a DHA (Direct Hardware Access) window, its backing store, if any, is moved to "Shared Memory". Shared memory is a piece of memory that can be accessed by drawing routines of the Xserver as well as by the drawing routines in Starbase library. However the shared memory is a limited resource and sometimes may be unavailable. This may happen if there are several windows or one large window has been declared to be DHA window. If the Shared memory is not available, the Xserver should backoff and refuse to provide backing store support for the DHA window. Because of a bug, the Xserver sometimes fail to recognize this situation and tries to render to nonexistent backing store in the shared memory. Consequently the server crashes. This bug is being fixed in the next release. The problem is particularly visible for windows of depth 24, because the large quantities of memory are required to support backing store operation of these windows and consequently the shared memory reservoir runs out quicker.

Temporary solution:
Workaround:

The problem may be avoided (minimized) by doing the following:

- 1) do not have many DHA-windows with backing store.
- 2) do not declaring large full screen windows with backing store to be DHA-windows.
- 3) increase the size of allocated shared memory by instructing the Graphics Resource Manager (GRM). See the relevant GRM-document for instructions on how to do this.

KPR #: 3900007518 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:

On LCC or Hexagon display copying window sometimes is not right

Problem:

If a window has backing store and it is partly obscured, then when the window is unobscured its contents are to be copied from the backing store to the screen. In the LCC or Hexagon displays sometimes it does not work properly.

Cause:

The backing store of a window resides in either the frame buffer or in virtual memory. When the backing store contents are to be copied to the screen the Xserver employs one of two different routines to copy the backing store to the screen. One of these routines is specifically used to copy from a backing store in frame buffer to the screen. Another routine is used to specifically copy backing store in virtual memory to screen. The former routine as implemented for the above displays has a bug, such that sometimes it does not copy the contents of the backing store from the frame buffer if the area to be copied is partially visible and partially obscured. On most displays, the problem manifests only once when the Xserver is initialized. On the LCC and Hexagon displays, this problem may persist.

Temporary solution:

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KPR #: 3900007518 **CONTINUED**

Workaround:

Large windows will have their backing store in virtual memory. This problem will not be visible then.

KPR #: 3900007526 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:

XGetImage behaves wrong for backing store windows of depth 2,3,4,6.

Problem:

If a client calls XGetImage on a window with backing store, whose depth is greater than 1 and less than 8, and a portion of the window is obscured, then the obscured region of the window image returns the pixel representation of the screen when it should return the image stored in the backing store.

Temporary solution:

Make sure such a window is not obscured before XGetImage is called.

KPR #: 3900007534 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:

HP98556 and STACKED SCREENS Mode: colormap hosed when server resets

Problem:

Running a server in STACKED-SCREENS MODE with a HP98556 integer accelerator present causes problems. When the last client dies, the server resets, as expected. However, it also trashes the colormap in such a way that most everything goes black (in a stippled fashion - the mesh of the root window). Using the mouse to toggle between the two screens causes the colormaps to reset correctly.

Cause:

The server will attempt to use the HP98556 if it is running when the server is started. If it is not running, but can be successfully started, the server will do so. There are some firmware difficulties in using the HP98556 and timing of toggling between the image and overlay planes in STACKED-SCREENS mode.

Temporary solution:

Workaround:

None: Using a HP98556 in STACKED-SCREENS mode is not supported. One way to turn off the HP98556 is as follows:

- 1) Shut down the X system
- 2) rename the HP98556 microcode file
- 3) issue a "gopen (... , RESET_DEVICE)". This will reset the HP98556 and cause it to reload its microcode. Since the file has been renamed, the reload will fail and the HP98556 will shut down.

To start the HP98556 again, rename the microcode file back to normal and issue the gopen again.

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KPR #: 3900007534 **CONTINUED**

Note: If the HP98556 is not running, but the microcode file is present, the server will start the HP98556.

KPR #: 3900007542 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:
Server doesn't always handle "Unsorted" XSetClipRectangles correctly

Problem:
The X lib procedure "XSetClipRectangles" allows the client to specify a set of rectangles in which to restrict rendering. The client must specify the ordering of the rectangles (Unsorted, YSorted, YXSorted, YXBanded). Rectangles that are "Unsorted" are not always handled correctly.

Cause:
The server always works with rectangles in YXBanded format. Rectangle lists specified in another format are converted to YXBanded. The algorithm to convert Unsorted rectangles to YXBanded is incorrect.

Temporary solution:
Workaround:

Order the rectangles into one of YSorted, YXSorted, or YXBanded.

KPR #: 3900007559 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:
backing store is not deleted for depth 24 DHA windows

Problem:
If a depth 24 window is registered for Direct Hardware Access, any backing store present is not deleted. Also, a request to create backing store for such a window is not denied. If the window is obscured and then exposed, the contents of the backing store will be drawn. This is only a problem if the DHA client can not render into the backing store.

Cause:
The X server can render into depth 24 backing store. DHA Starbase clients can not. When a depth 24 window with backing store becomes registered for DHA, the server should delete the backing store. Similarly, if a depth 24 DHA client requests backing store, it should be denied.

Temporary solution:
Workaround:

Before registering the window for DHA, explicitly delete any backing store via the XSetWindowAttributes library procedure.

KPR #: 3900007567 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:
Backing store may not be rendered to correctly on some displays (s300)

Problem:
On the 98542, 98543, 98544, 98545, and 98547 display interfaces, any operation that results in the copying of data from one of the screen to another area that is obscured AND has Backing Store enabled will result in the backing store being rendered incorrectly. Typical operations such as moving a window or obscuring a window will NOT cause this behavior to appear. Only copying on screen data to another area of the screen that is obscured by another window will cause this.

Temporary solution:
No workaround.

KPR #: 3900007575 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:
redMask in the Visual structure zero in stacked mode on SRX/TSRX

Problem:
On the SRX (HP 98720/98721) and TSRX (HP98730/98731) displays, if the first screen of a Stacked Screen mode configuration has a visual class of DirectColor (i.e., its depth is either 12 bits double buffered, or 24 bits), then the ConnectionInfo that is transmitted to the client at XOpenDisplay time will have a bad value for the redMask of the DirectColor visual. The net result is that it is impossible to tell what bits of the Pixel actually define the red component.

Temporary solution:
Workaround:

Reverse the order of the screens in the Xscreens file.

KPR #: 3900007583 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:
Colors stored incorrectly in upper bank on TSRX double buffer mode

Problem:
On the Turbo SRX display system (HP 98730/98731) if the X server is started in 12/12 double buffer mode (depth 24) then colors that are stored into the high bank will have the value intended for the green bank stored into the red bank, altering the red bank and leaving the green bank untouched. This problem should be unnoticeable in most cases. However, if the situation arises where a Starbase application is designed to utilize the X default colormap of the X server, then the display will flash with incorrect colors at each call to dbuffer_switch().

Temporary solution:
No workaround.

KPR #: 3900007591 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

White RGB value incorrect on 98548 display

Problem:

The value stored in the colormap for the color white for the 98548 display system is Red = 0xffff, Green = 0xffff, Blue = 0xffff. It should be 0xff00 for all three components to correctly match the rgb color database.

This results in being unable to allocate the color white. Thus a command such as the following will fail:

xsetroot -solid white

Temporary solution:

No workaround.

KPR #: 3900007609 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

On TSRX (hp98730/98731) some tiles are rendered incorrectly

Problem:

On the Turbo SRX display system (HP98730/98731) tiles (patterns used for certain fill operation) whose width is between 16 and 23 pixels wide will not be rendered correctly. Visually, it looks as though only the left-hand portion of the tile is correct, with the right-hand portion looking like random data.

Temporary solution:

No workaround.

KPR #: 3900007617 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

Tiles may be drawn incorrectly on SRX (HP 98720/98721) (s300)

Problem:

On the SRX (HP 98720/98721) display system, some tiles (pixmap used as fill pattern for rendering operations) may be drawn incorrectly depending on their alignment on the screen. This is a purely cosmetic defect.

Temporary solution:

No workaround.

KPR #: 3900007625 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

Remnants of SB cursors left when obscuring/unobscuring window

Problem:

On the Turbo-SRX, when an accelerated window with a Starbase cursor is being or will be obscured by another window (accelerated or not) that has a Starbase cursor in it, the cursor is not put down properly. This will happen even if the Starbase program is not accessing the device.

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KPR #: 3900007625 **CONTINUED**

The result is that pieces of Starbase cursors will be left on the screen.

Temporary solution:

No workaround.

KPR #: 3900007633 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

SB cursors in reserved planes are not turned off by the screen saver.

Problem:

If a direct hardware access window has a Starbase cursor in it on the Turbo-SRX or SRX that cursor is not turned off by the screen saver.

Temporary solution:

No workaround.

KPR #: 3900007641 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line/description:

client clip ignored when rendering to obscured window with backing store

Problem:

It is permissible for a client to specify that all rendering is to be contained within a sub-area of the window. This is called a client clip and is specified via the XSetClipRectangles or XSetClipMask client routines.

It is also permissible for a client to request backing store for a window. Any rendering to an obscured area of the window will then be directed to the backing store memory rather than discarded.

If both these options are in effect, any rendering outside the client clip area should be discarded and not rendered to the backing store. In the current product, this does not happen. Any rendering to an obscured area of the screen is directed to the backing store, regardless of the client clip area. When the obscured area becomes visible, the unwanted rendering is copied from the backing store memory to the screen, creating an undesirable result.

Cause:

The clip list that is passed to the SDI drivers contains two types of rectangles, "visible" and "obscured". A visible rectangle is a portion of the window that is visible. An obscured rectangle is a portion of the window that is obscured by another window, is offscreen, or is outside the client specified clip area. Rendering to a "visible" rectangle goes to the screen. Rendering to an "obscured" rectangle is discarded unless backing store is present in which case the rendering is directed there.

The union of all rectangles in the clip list covers the entire window. There is no way for the SDI drivers to distinguish between an "obscured" rectangle that is caused by window obscurity (and should be rendered to backing store) from an "obscured" rectangle caused by being outside the client clip area (and should ALWAYS be discarded!).

Temporary solution:

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KPR #: 3900007641 **CONTINUED**

Workaround:

One potential workaround is to use the 6.2/3.0 X11 Server instead. This defect has been introduced by the 6.5/3.1 Server implementation. However, using the 6.2/3.1 X11 Server will cause a loss of functionality present in the new product. If this is unsatisfactory, the customer should contact his HP Support representative. A server with the defect corrected will be supplied to the Support organization.

KPR #: 3900007658 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:

If X server restarted, ScreenSaver time not initialized.

Problem:

Users of X can specify a timeout value for the server. If no input is received by the server during that time, a screensaver background pattern will be drawn over the X display. If the timeout value is reached, so that the background pattern is drawn, and then the last client exits, so that the server restarts itself and redraws the root window, the time used to determine when the server next saves the screen will be incorrect.

Cause:

The code that waits for input before checking to see if it is time to save the screen waits longer than the screensaver time.

Temporary solution:

Workaround:

Type a key or move the mouse after the server restarts.

KPR #: 3900007666 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:

Multiple keycodes with same keysym in USASCII keypad.

Problem:

The X library provides functions to look up an X server keycode using a key symbol, and vice versa. In order for these to work correctly, there must be a one-on-one correspondence between keycodes and key symbols.

In the USASCII keypad, more than one keycode is defined to the same key symbol. The effect of this is that a client program can redefine a key symbol based on the keycode, then look up the key symbol that it has redefined, and still find it even though it should no longer be there.

Cause:

More than one keycode is defined to the same key symbol.

There are no keys on the USASCII keyboard that can generate the duplicate keycodes, so this is only a problem for client programs that redefine the affected key codes and then look up the key symbols that have been redefined. The affected key codes and key symbols are:

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KPR #: 3900007666 **CONTINUED**

keycode	key symbol	description
-----	-----	-----
0x14	KP_6	- the '6' key on the keypad
0x28	KP_6	- doesn't exist on the keyboard
0x1c	KP_3	- the '3' key on the keypad
0x29	KP_3	- doesn't exist on the keyboard
0x25	Kanj1	- doesn't exist on the keyboard
0x83	Kanj1	- doesn't exist on the keyboard

Temporary solution:
Workaround:

Be aware that if XChangeKeyboardMapping is used to redefine the key symbols associated with the affected keycodes, and XKeysymToKeycode is then used to look up the symbol that was redefined, it will still be found and will be the second instance of that symbol.

KPR #: 3900007674 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:

X Server error message: "Illegal state: prev_stat=2 keycode=0".

Problem:

If you use a two-button mouse with the X server, and the X server is heavily loaded, it is possible to get an internal error message from the X server when pressing mouse buttons. The message is something like "Illegal state: pre_state=2 keycode=0".

and indicates that a button has been lost by the HIL driver, so that the X server has seen two consecutive button down or button up codes.

Cause:

The HIL driver has a finite sized buffer. If the X server is busy and does not read from that buffer, and the user continues to move the mouse it is possible to cause that buffer to overflow. The result is that a button can be lost and the user needs to press that same button again to get the server to see it. There is usually no ill effect other than the irritation of seeing the error message and having to press the button again.

Temporary solution:

Workaround:

Make sure that standard error output from the server is redirected to a file so that it does not come to the console. If the server is slow because it is busy, don't keep moving the mouse or banging on the buttons in an attempt to get its attention.

- X11 WINDOWS 6.5/3.1 -

KPR #: 3900007682 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:
Compiler error when referencing XHPSTACKED_SCREEN_MODE constant

Problem:

If you use the XHPGetServerMode function to determine the mode of the X server, a value is returned that should be compared to constants defined in <X11/XHPproto.h>. One of these constants, XHPSTACKED_SCREEN_MODE, is defined as STACKED_SCREEN_MODE. If you reference the constant XHPSTACKED_SCREEN_MODE, the compiler will report that STACKED_SCREEN_MODE is undefined.

Cause:
STACKED_SCREEN_MODE is undefined. The constant that should have been used is STACKED_MODE.

Temporary solution:
Use the constant STACKED_MODE instead of XHPSTACKED_SCREEN_MODE.

KPR #: 3900007690 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:
Last client termination MAY cause the X Server to abort

Problem:

When the last X client terminates, the X Server goes through a virtual reset. The Server may abort when during this virtual reset. We have one widget program which evidences this behavior. In most instances, the Server will successfully reset.

Temporary solution:
Workaround:

Run an X Client which will not be terminated, like xclock. This will ensure that the Server will not go through the reset process.

Signed off 02/08/90 in release C02.00

KPR #: 3900007708 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:
XOpenDisplay through local:0 disables access control of server

Problem:

When a client connects via the local:0 display specifier, it will disable the server's access control mechanism for an indeterminate period of time. Thus, unauthorized hosts can run clients against the server. This disabling will continue until some system error occurs within the server, resetting the global variable "errno."

Temporary solution:

Do not use the display specifiers local:0 or unix:0

Signed off 02/08/90 in release C02.00

KPR #: 3900007716 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:
Existing SB_DISPLAY_ADDR variable may interfere with X server (s300)

Problem:

For the Windows/9000 product on the s300, users can set the SB_DISPLAY_ADDR environment variable to specify the location in user data space where the frame buffer mapping should occur. This same environment variable can cause the X server to generate an spurious error message:
"Unable to open the Graphics Resource Manager."
--and then exit.

Cause:
Windows/9000 interprets the SB_DISPLAY_ADDR setting to be in decimal by default. The X11 server interprets the setting in hexadecimal, causing unreasonable values for the frame buffer base address to be passed to the Graphics Resource Manager and the resulting error exit condition.

Temporary solution:
Remove the SB_DISPLAY_ADDR from your environment before running X Windows.

From 'csh', use: unsetenv SB_DISPLAY_ADDR
From 'sh' and 'ksh' use: unset SB_DISPLAY_ADDR

KPR #: 3900007724 Product: X11 WINDOWS 6.5/3.1 B1152B 00.03

One-line description:

Gwind can hang when large number of windows are created.

Problem:

This defect can cause the gwind daemon to hang. gwind hangs when a about 50 graphics windows have been created. This is an unusually high number for a user, but not out of the question. This is a low frequency defect, with serious consequences.

We have placed a warning in our update_info file stating: Using more than 24 graphics windows at the same time can cause the gwind program to hang. Killing the gwind process is the best way to restore the ability to create graphics windows for starbase applications.

Temporary solution:

Workaround:

The workaround is to kill the gwind process. This destroys the graphics windows and allows the user to start creating graphics windows again.

Signed off 02/08/90 in release C02.00

KPR #: 3900007732 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

Certain bitmap(s) does not tile correctly as a root background (s300)

Problem:

A particular bitmap is not rendered correctly when used as a root window background and there are clipping rectangles to the left. We have not seen this defect with all bitmaps.

Temporary solution:

Workaround:

If the user has control over the windows that generate the clip rectangles then moving those windows can be a workaround. Similarly if the user can control the bitmaps, then there may be a different bitmap that is usable and work as it should. It is conceivable that for some users there will not be a workaround.

Signed off 02/08/90 in release C02.00

KPR #: 3900007740 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

xset gives error if pixel value is used outside of range 1-255.

Problem:

On direct color systems like the TurboSRX, if a large pixel value is used an error condition is generated. The expected behavior is that this operation should work.

Temporary solution:

No workaround.

Signed off 02/08/90 in release C02.00

KPR #: 3900007757 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

xwd does not use the colors saved; it uses just the pixels

Problem:

Xwd saves the window contents along with the colormap; however, when xwd displays the saved contents, it ignores the colormap and instead uses the pixels.

Temporary solution:

No workaround.

Signed off 02/08/90 in release C02.00

KPR #: 3900007765 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

HPwm leaves X server grabbed and forgets pending resize if menu pops up

Problem:

- X11 WINDOWS 6.5/3.1 -

KPR #: 3900007765 **CONTINUED**

HPwm forgets about a pending window resize operation and leaves the X server grabbed if a button press causes a menu to pop up during the resize. The following line of my button bindings causes a menu to pop up for button 3 presses in the window frame area. If I start a resize with a menu then press button 3 while over a frame area the pop up menu is displayed. When button 3 is released the menu is removed and the resize is no longer occurring. The server is still grabbed, preventing clients from running.

Temporary solution:

The window manager will ungrab the server if another resize is done on any window.

Signed off 02/08/90 in release C02.00

KPR #: 3900007849 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

All special properties have parsing problems in xfc.

Problem:

The validity of data specified for special properties is not checked by xfc.

Temporary solution:

Workaround:

The user must ensure that special property data is correct.

Signed off 02/08/90 in release C02.00

KPR #: 3900007872 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

Bitmap with -nodashed, then do invert all results in lines becoming dots

Problem:

Using bitmap with -nodashed, then do invert all results in lines becoming dots.

If bitmap is started with the -nodashed option and the user then specified 'invert all', the solid lines become dots.

Temporary solution:

No workaround.

Signed off 02/08/90 in release C02.00

KPR #: 5000476838 Product: X11 WINDOWS 6.5/3.1 B1152B

00.03

One-line description:

Duplicate reference to _bcopy in libX11.a and libndbm.a

- X11 WINDOWS 6.5/3.1 -

KPR #: 3900008995 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
On SRX and TSRX, XGetVisualInfo incorrectly reports bits_per_rgb as 4

Problem:
The problem is in line 319 of xosDD.c

Temporary solution:
No workaround - Fixed in next release

KPR #: 3900009001 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
xvcreate cannot create windows on multiple servers

Problem:
The gwind daemon in 7.0 only created a pointer cursor for the first window generated by a call to xvcreate and then attempted to share it with all subsequently created windows. Since this will only work correctly for windows residing on the same display:screen combination as the first window, a non-fatal X protocol error was generated.

Temporary solution:
No workaround - fixed in next release

KPR #: 3900009019 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
mkfontdir doesn't unlink fonts.dir before creating new fonts.dir

Problem:
If two font directories are linked together, the server may get mixed up in finding the correct location of a font file

Cause:
mkfontdir should rm the fonts.dir file before it writes a new one

KPR #: 3900009027 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
cvtINT16ToInt in XGetMotionEvents causes cc to abort

Problem:
There is a typo in the source code for libX11.a, specifically in the routine XGetMotionEvents(). In this routine, there is a reference to the macro "cvtINT16ToInt", which is misspelled as "cvtINT16ToInt". As a result, any X program which calls XGetMotionEvents() will fail to compile with the message:
ld: Undefined external - cvtINT16ToInt
ld: output file still contains undefined symbols
ld: (warning) did not generate an output file
unless you add the include file <X11/Xlib.h> to your program,
and also include a bogus subroutine which effectively
cvtINT16ToInt to cvtINT16ToInt.

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KPR #: 3900009027 **CONTINUED**

Temporary solution:
include this text in program:

```
cvtINT16ToInt(a)
{
    return cvtINT16ToInt(a);
}
```

KPR #: 3900009050 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
XGetPixel returns invalid data for 98547S Topcat 300h:6 double buffer

Problem:
When a topcat hexagon is run in double buffered mode, and the XGetPixel routine is called, a "whitepixel" value is returned as 0x9 (binary 00 100 100). The upper three bits of the double buffered value are not being masked off properly (by the XGetPixel xlib routine). It should read 00 001 001.

KPR #: 3900009068 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
XErrorDB does not include any error information for errors over #127

Problem:
Xlib does not sufficiently check when using the error messages from XErrorDB. XErrorDB only has 127 error messages and error number greater than 127, the message is garbage.

Temporary solution:
It is possible to create your own error handler in Xlib and it would be possible to trap errors greater than #127

KPR #: 3900009076 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
hpterm when maximized does not handle geometry changes when [Menu] on

Problem:
When an hpterm window is maximized (under mwm or hptwm) and then the [Menu] key is toggled on/off, strange things happen to the window's geometry and the original size and position of the window is lost.

KPR #: 3900009084 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
old style (pre 7.0) grmd+ socket not removed by AGRM customize script

Problem:
The AGRM fileset presently does not have a customize script. It needs one and that script should change any old-style sockets for the grmd to the current style. This involves checking to see if there

- X11 WINDOWS 7.0 -

KPR #: 3900009084 **CONTINUED**

exists a grmd+ cdf in /usr/spool/sockets and removing it.

KPR #: 3900009092 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
sys.Xdefaults lacking colon in line for "HPterm*Font "

Problem:
The sys.Xdefaults file shipped at 7.0 has a line that reads:

```
! HPterm*Font <font>
```

This line is wrong because it is missing a colon ':' after Font:
! HPterm*Font:

Temporary solution:

```
Add colon (:) at end of word Font:  
! HPterm*Font:
```

KPR #: 3900009100 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
hpterm may leave highlighting on in erased regions

Problem:
If there is a color change (e.g., ^[&v4S) or inverse video (e.g., ^[&dB) on a line, but no text, and the line is deleted with the [Clear display] button, the color property remains set.

KPR #: 3900009118 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
Xos.h needs to default to SYSV, not Berkeley stuff

Problem:
The file Xos.h should be tailored to our hp-ux system a bit better. Possibly, the xos.h file should have the defines for SYSV removed. This will aid its use when included by customers.

For example, if a customer does not define SYSV in their program, the Xos.h file does an include of <strings.h>, and this file does not exist on hp-ux systems.

KPR #: 3900009126 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
TextEditP.h: extra characters after #endif

Problem:
Submitter claims that ANSI-C does not allow non-comment tokens to follow an #endif.
Therefore, change:
#endif _XtTextEditPrivate_h
to
#endif /* _XtTextEditPrivate_h */
in /usr/include/Xw/TextEditP.h

KPR #: 3900009159 Product: X11 WINDOWS 7.0 B1152C

One-line description:
Changing XtnhighlightThickness on static raster causes X Protocol error

Problem:
When the height, width and highlightthickness are changed on a static raster widget, the following error is produced:

X Protocol error detected by server: parameter not a GC
Failed request major op code 70 X.PolyFillRectangle
Failed request minor op code 0 (if applicable)
ResourceID 0xc00008 in failed request (if applicable)
Serial number of failed request 155
Current serial number in output stream 165

KPR #: 3900009183 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
hpterm (block mode) loses character on read from cursor to end of line

KPR #: 3900009191 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
hpterm (7.0) does not read correctly from specified column to end of line
Duplicate Service Requests: 3900009209

KPR #: 3900009217 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
hpterm 7.0 does not display alternate character set with curses program

KPR #: 3900009225 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
Memory leak when create/destroy PromptDialog widget; Motif 1.0

KPR #: 3900009233 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
Problems reading with Esc-D in hpterm block mode

Fix information:
A new hpterm has been made available on the patch machine in Fort Collins.

KPR #: 5000535153 Product: X11 WINDOWS 7.0 B1152C 02.00

One-line description:
hpbkterm does not warn user that lines are being lost in TDP buffer

Instructions for Submitting Problem Reports

A copy of the form you can use to submit a software or documentation problem for the HP 9000 is enclosed.

The following questions are intended to help you identify the problem and consequently to enable us to help you.

1. Which manual most closely discusses the area in which the problem has occurred?
2. Have you isolated the problem to a specific function, operation or sequence of events? Please specify the steps, materials (programs, data files) and hardware used so that we can repeat the problem. The underlying concept here is that the problem must be repeatable. If, in order to repeat the problem, your specific application is not fully understood, the process will only be delayed. For this reason, the more you can isolate the problem to a specific function, statement or sequence of events, the quicker Hewlett-Packard can respond.

Be specific. For example, if you are having a problem with some applications software, we need:

Name	HP 9000 BASIC Demo
Part Number	11141-10700
Revision	01.00

For manuals, the revision or date code on the back cover should be included. For example:

Name	BASIC Programming Techniques
Part Number	97050-90000
Revision	First Edition, Dec., 1982

Include the operating system information. For example:

Name	BASIC Language System
Part Number	97050A
Revision	01.00

For hardware, include the product numbers, revision levels of the configured system and option ROMs.

3. Have you checked with the Software Status Bulletin (SSB) to see if the same or a similar problem has been reported and/or fixed?

If you need additional copies of the Software/Documentation Problem Report, you may photocopy the enclosed form or contact your local Hewlett-Packard Sales Representative.

Complete side 1 of the Software/Documentation Problem Report and forward it to your local HP Response Center who will take action on your report.

If you received the SSB as part of your initial shipment of an HP computer, this is a complimentary copy. The SSB, published quarterly, is a subset of the Software Information Service (SIS). If you would like to continue to receive this publication or need more information on the SIS and other support services, contact your local HP Sales Representative.

WORLDWIDE RESPONSE CENTERS

Argentina

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Mexico

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Customer Response Center
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Caracas, 1050
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SOFTWARE/DOCUMENTATION PROBLEM REPORT

Submitted by	Phone	Date
Firm Name	System Model	
Address	Product Name or Manual Title	
Address	Product Number or Manual Part Number	
Address	Revision or Edition and Update	

CONFIGURATION (Includes all hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)

PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and any other information that might be helpful.)

DOCUMENTATION (List all supportive documentation included with this report. You must provide all relevant programs, data files, data bases, etc. on machine-readable media.)

MEDIA (e.g., mag cartridge listing, flex disc)	DESCRIPTION

Send all Service Requests to the Response Center nearest you. See the previous section: **Instructions For Submitting Problem Reports**

HP PROBLEM REPORT VERIFICATION FORM

To be completed by local HP Systems Engineer

Send all Service Requests to the Response Center nearest you. See the previous section:
Instructions for Submitting Problem Reports

Verified by

Comsys Code

Date _____

()

Ext.

Phone No.

Severity Level: Critical

Serious

Normal

Low

Product Name or Manual Title

Product or Manual No.

Revision or Edition and Update

Category:

Hardware ☐Software ☐Documentation ☐Unknown ☐

Classification:

☐ Enhancement

☐ Documentation Error

☐ Cannot Duplicate (Duplication attempted on product revision __)

☐ **New Problem**

☐ Other (Explain) _____

Detailed instructions for duplicating problem:

Workaround:



Customer Order Number

97005-90011

Printed in USA

**** For HP Internal Reference Only ****

Manufacturing Part Number

5960-1533

